1988-1989

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Term Beginning</th>
<th>Term Expiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leonard J. Immke, Columbus</td>
<td>May 14, 1980</td>
<td>May 13, 1989</td>
</tr>
<tr>
<td>John W. Berry, Dayton</td>
<td>May 14, 1981</td>
<td>May 13, 1990</td>
</tr>
<tr>
<td>Hamilton J. Teaford, Columbus</td>
<td>May 14, 1983</td>
<td>May 13, 1992</td>
</tr>
<tr>
<td>John J. Barone, Toledo</td>
<td>May 14, 1984</td>
<td>May 13, 1993</td>
</tr>
<tr>
<td>Deborah E. Casto, Columbus</td>
<td>May 14, 1985</td>
<td>May 13, 1994</td>
</tr>
<tr>
<td>John W. Kessler, Columbus</td>
<td>May 14, 1986</td>
<td>May 13, 1995</td>
</tr>
<tr>
<td>Milton A. Wolf, Cleveland</td>
<td>May 14, 1987</td>
<td>May 13, 1996</td>
</tr>
<tr>
<td>Leslie H. Wexner, Columbus</td>
<td>May 14, 1988</td>
<td>May 13, 1997</td>
</tr>
<tr>
<td>Laurel A. Davis, * Tipp City</td>
<td>February 6, 1989</td>
<td>May 13, 1990</td>
</tr>
<tr>
<td>Sophia L. Paige, * Columbus</td>
<td>February 6, 1989</td>
<td>May 13, 1989</td>
</tr>
<tr>
<td></td>
<td>May 14, 1989</td>
<td>May 13, 1991</td>
</tr>
</tbody>
</table>

*Student Trustee -- non voting.

OFFICERS

Leonard J. Immke, Chairman
John W. Berry, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer
The Board of Trustees met at its regular monthly meeting on Friday, July 8, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.

* * *
Mr. Immke:

I would like to call on Mr. Covert to make the committee report for the Hospitals Board.

Mr. Covert:

Mr. Chairman and Members of the Board, the Hospitals Board met on June 23, and we had a very full agenda at that session. We began our meeting with a presentation by Mrs. Bette Dare, who is our retiring President of the Hospitals' Service Board. She summarized a number of organizational activities during the last year and the Board wished her well and thanked her for her efforts. Mrs. Kay Bradford is going to assume that position and I am sure that we will be receiving reports from her in the future.

The Board at that session unanimously elected Dr. John Kramer as our new Chairman, and requested that the Trustees waive the Hospitals Board Bylaws limitation on two consecutive terms of office so that Mr. Jack Havens could serve a third term as our Vice Chairman. We further requested at that session a Bylaws revision that would allow us to create an Emeritus Hospitals Board membership, which would be awarded by the Trustees as they saw fit to members of the Board in recognition of unique contributions to the Hospitals.

We heard several presentations — one of those related to what we refer to as our Employee Suggestion Award Program, which is a plan which rewards and recognizes employees for new ideas which result in real dollar savings to the organization. We heard a report from Mrs. Barbara Bucker, Administrator for Nursing Services, who talked to us about the nurse shortage and concerns we might have, not only in the local community, but also how they might effect OSU Hospitals and how we could try and respond to those issues as they arise in the future. I think it is a national problem. We have talked about this in the past and you have heard some things about that. I think we need to be prepared, all institutions in the community, to be able to deal with those changes in the future.

We had a Cancer Committee meeting of our Board in which they proposed changes for our consideration in the organizational structure. The intent behind some of those changes would be to allow us to apply for an exemption from the Health Care Financing Administration and their present reimbursement program. If we were to achieve the exemption, the Hospitals could gain an additional $3 to $4 million in reimbursements from Medicare beyond that which we would have today. It would put us in a better position financially as the Cancer Hospital gets off
July 8, 1988 meeting, Board of Trustees

Mr. Covert: (contd)

the ground. After some extensive discussion, the plan was agreed to be forwarded to Dr. Jennings and given the opportunity to review that, the Board would follow any of his particular recommendations on the structure of the Cancer Hospital in the future. We would hope to apply for that exemption in the next 30-60 sixty days and I would anticipate we would hear something, hopefully, by the first of the next calendar year.

After review and approval by the Hospitals' Credentials Committee and the Medical Staff Administrative Committee, nominations for medical staff appointments and reappointments were endorsed by the Hospitals Board. I believe you have a number of those in your packet today and you have had the opportunity to review them.

The Professional Affairs Committee heard reports concerning our Human Subjects Review Committee. As you know, we are guided by federal guidelines that whenever individuals are involved in clinical research we follow very strict guidelines. So we shared with the Board what exactly those guidelines were and how we monitor ourselves in that regard. We heard about our outreach program for our first-year medical students. You might not be familiar with the fact that they do a number of clinical clerkships out in various settings: nursing homes, MedOhio's, and in other settings.

There were a number of other issues that we talked about in the quality assurance area, the ambulatory surgery program, and the integration of Hospitals and Clinic medical records -- I know this has been a concern to not only Board Members, but the Hospitals Board as well. We are trying to make that a more efficient operation in the future.

We had the opportunity to report on our MedOhio urgent care network and we feel good about the progress we have made. At this point in time, and I think that I reported to this Board previously, we think it is on an even keel and has a solid referral base to it. The facilities are providing very specific educational opportunities and locations for our students and residents and so we feel very good about that.

We heard reports on our information systems, on our traffic and parking issues, and outpatient billing. As you know, Mr. Redman had asked me at his last meeting here where we stood with reference to the centralization of any of our activities to minimize some of the billing problems. At that time I indicated to him that in the month of June and the beginning of July we would be specifically studying that issue with some outside help and be making some changes with regard to that system. That is in progress at this point and I am sure that the Hospitals Board will hear more reports on that in the future.

Finally, we expressed our gratitude for Mr. Immke's participation on the Hospitals Board and Mr. Vorys' leadership as our
July 8, 1988 meeting, Board of Trustees

Mr. Covert: (contd)

Chairman for the last two years. And if I might, Mr. Chairman, take this opportunity -- Shirley was going to do this but since she is not here -- this was a resolution that was passed by the Hospitals Board at the last meeting: "In recognition of outstanding service as a Trustee Member of The Ohio State University Hospitals Board, May 1986 through May 1988, The Ohio State University Hospitals Board conveys to Leonard J. Immke, a loyal friend of the University and faithful custodian of the University Hospitals its sincere appreciation and accommodation," and signed by the appropriate people. On behalf of the Board, I would like to present this to you.

Mr. Chairman, that concludes my report.

Mr. Immke:

Thank you. Mike, before you leave -- on behalf of the Board of Trustees and all of Ohio State University, I would like to sincerely thank you for your tireless efforts over the last three years that you have been in charge of University Hospitals. We are going to miss you. We wish you the best with your new endeavors.

Mr. Covert:

Thank you, very much. I have very much appreciated the support that I have had in the three years that I have been here from Dr. Tzagournis, members of the Hospitals Board, the President, and the central administration staff. We have not always been known to agree upon issues, but we agree upon the principles and what the University stands for and what we are trying to achieve at the University Hospitals. I very much appreciate the time that the Trustees have given us, because without that involvement and support, I don't think we would have progressed as much as we have in the last three years. We have come a long way. I think we are a strong organization and we are a stable organization. I think we have every reason to feel very good about The Ohio State University Hospitals. We have a tendency on occasion in our own organization to get down upon ourselves and our problems. And when you step back and you take a look at it, we have every reason to feel that we are one of the finest university hospitals in the United States. We have no reason to take a back seat to anyone. Ohio State has reason to be proud of its Hospitals and the people that are there for the research that is being conducted. I know I shouldn't normally have to say that, but once in a while maybe you need to hear that, too. I am very pleased to have been a part of it. I will always be a "Buckeye" and I will always look with fondness upon the growth of the Hospitals. I think we are going in the right direction. I appreciate the time that you have given me and the patience that you have had with me over the last three years. Thank you.

Mr. Immke:

Thank you, Mike. I would like to call on Mr. Barone, Research Foundation Report --
Mr. Barone:

Thank you, Mr. Chairman. At this time I would like to read a report on the Research Foundation Grants and Contracts for the month of May 1988, which are in the Board Agenda Book.

There were 98 awards listed which provide a gross income of $8.5 million. For the first eleven months of the fiscal year July 1, 1987, to May 31, 1988, we received 1,110 awards for a gross income of $91.9 million. This represents an eight-tenths of a percent decrease in funding for the eleven-month period. Funding from the federal government, the State of Ohio, and the industry is running ahead of last year's pace. The decrease in funding and the other non-federal sector is accounted for primarily by the impact of an $11 million multi-year award received in May 1987, from the Midwest University Consortium for the International Activities for the Indonesia Second University Development Project.

Some highlights of awards for May are:

* $1,500,000 award from the National Science Foundation to Taylan Altan of the Engineering Experiment Station for the continuation of the Engineering Research Center for Net Shape Manufacturing.

* $1,000,000 award from the Midwest Universities Consortium for International Activities to David O. Hansen of the Office of International Programs in Agriculture, for the continuation of the Burma Agricultural Production Project.

* $962,543 award from the U.S. Department of Education to Thomas M. Stephens of the College of Education - Administration for the Regional Resource Center.

In my report through the end of May there was an eight-tenths percent decrease in the awards; however, since this report, our vice president for Research and Graduate Studies has obtained the results for the month of June. I would like to call on Jack Hollander to elaborate on this matter.

Dr. Jack Hollander:

Thank you, very much, Mr. Barone. As Mr. Barone mentioned, one of the factors that gave us such a good year last year was the $11 million award for research and development in the southeast Asian countries. It was a tremendously good month in May, last year. Just five minutes ago I received some fast breaking news that the fiscal year has now been closed. I can report that this year the month of June has been very good and the total for the fiscal year, including the month of June, is $106.6 million, which does not represent a decrease, but in fact a 5 percent increase over last year. So we continue to grow in our research income as well as quality. Although I have reported to the Board several times, as you look at these data on a month by month, quarter by quarter basis they go up and down. But each year we have increased the total from the previous year and it
July 8, 1988 meeting, Board of Trustees

Dr. Hollander: (contd)

looks like we will be up 5 percent this year for another very, very good year for the University. Thank you.

Mr. Barone:

Any questions? Thank you, Jack. Mr. Chairman, that ends my Research Report.

Mr. Immke:

Thank you, John.

President Jennings:

Jack, on that 5 percent increase -- that, of course, understates the growth because of the loss of the National Center for Research and Vocational Education award which was $6 million. So without that loss, it would have been up 11 percent or 12 percent which is even more substantial.

Mr. Barone:

Without that loss, it would have been the best year ever -- way beyond our imagination.

Mr. Immke:

Thank you.

--- 0 ---

NEW DEGREE PROGRAM

Resolution No. 89-1

Synopsis: The establishment of a Ph.D. degree program in Neuroscience is proposed.

WHEREAS the Council on Research and Graduate Studies and the Council on Academic Affairs approved the establishment of a Ph.D. program in Neuroscience; and

WHEREAS the establishment of such a Ph.D. degree program will help meet a major state and national need for high quality broadly based research devoted to the nervous systems; and

WHEREAS the proposed interdisciplinary Ph.D. program is an extension of the strong interdisciplinary research efforts of the Departments of Anatomy, Internal Medicine, Medical Microbiology and Immunology, Molecular Genetics, Neurology, Oral Biology, Otolaryngology, Pathology, Pharmacology, Physiology, Physiological Chemistry, Psychiatry, Psychology, Radiology, Surgery, and Zoology; and

WHEREAS sufficient resources and student demand exist to support the proposed Ph.D. program in Neuroscience; and
July 8, 1988 meeting, Board of Trustees

NEW DEGREE PROGRAM (contd)

WHEREAS the University Senate approved the establishment of a Ph.D. degree program in Neuroscience on June 4, 1988:

NOW THEREFORE

BE IT RESOLVED, That the proposal to establish a Ph.D. degree program in Neuroscience is hereby approved.

Upon motion of Mr. Berry, seconded by Ambassador Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

MERGER OF TWO DEPARTMENTS Resolution No. 89-2

Synopsis: The merger of the Department of Ceramic Engineering and the Department of Metallurgical Engineering into the Department of Materials Science and Engineering is proposed.

WHEREAS the merger of the Department of Ceramic Engineering and the Department of Metallurgical Engineering into the Department of Materials Science and Engineering has been approved by the Council on Academic Affairs, the College of Engineering, the Department of Ceramic Engineering, and the Department of Metallurgical Engineering; and

WHEREAS the proposed merger of the two Departments will provide Ohio State with the faculty and resources necessary to become a leader nationwide among such departments; and

WHEREAS the merger will enhance the proposed Department's ability to recruit high quality faculty and graduate students, and to compete for external funds; and

WHEREAS the proposed new Department, Materials Science and Engineering, reflects the nationwide trend and research thrust encompassing a broader spectrum of materials; and

WHEREAS current undergraduate and graduate academic programs will not be altered; and

WHEREAS the University Senate approved the merger of the Department of Ceramic Engineering and the Department of Metallurgical Engineering into the Department of Materials Science and Engineering on June 4, 1988:

NOW THEREFORE

BE IT RESOLVED, That the merger of the Department of Ceramic Engineering and the Department of Metallurgical Engineering into the Department of Materials Science and Engineering, effective Autumn Quarter 1988, is hereby approved.

Upon motion of Mr. Kessler, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
Synopsis: Amendments to rule 3335-5-486 and the rescission of rule 3335-5-4814 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on June 4, 1988, as follows:

AMENDED RULES

3335-5-486 Council on admission and registration.

(A) Unchanged.

(B) Duties and responsibilities.

(1) Review current practices and policies, initiate recommendations for change, and review proposed changes in practices and policies concerning admission to the university, registration and scheduling, quarter-end validation procedures, and student academic records. These would include, but not be limited to:

(a) Selection criteria, conditions, requirements, restrictions, fees, deadlines, and procedures for evaluation of transfer credit as these pertain to admission to the university.

(b) Procedures and policies for registration and scheduling including scheduling priorities for students, restrictions on scheduling, and student schedule adjustments, as well as deadlines and fees associated with registration and scheduling.

(c) Content of student academic records, as well as their compilation, maintenance, dissemination, and use.

(2) Monitor the University calendar and make adjustments as needed following consultation with the council on academic affairs, the council of deans, and other appropriate bodies, or recommend major changes in the university calendar.

Recommendations on these matters should be made to the university administrators dealing with admission, registration and scheduling, and to the university senate as appropriate. The vice president for academic affairs and provost, the vice provost for student affairs, the office of the university senate, and the vice president for finance shall be notified of all actions of the council. Recommendations which in the opinion of the vice president for academic affairs and provost would affect academic policies shall be reviewed by the council on academic affairs.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

Balance unchanged.

3335-5-4814 University calendar committee.

To be rescinded.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Ambassador Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

AMENDMENTS TO THE UNIVERSITY HOSPITALS BOARD BYLAWS

Resolution No. 89-4

Synopsis: Amendments to the University Hospitals Board Bylaws are proposed.

WHEREAS pursuant to 3335-103-01 of the University Hospitals Board Bylaws, the University Hospitals Board Bylaws may be amended by The Ohio State University Board of Trustees; and

WHEREAS the proposed amendments to Bylaw 3335-93-01 has been endorsed and ratified by the University Hospitals Board on June 23, 1988, as follows:

AMENDED BYLAW

3335-93-01 University hospitals board.

(A) The body responsible to the Ohio state university board of trustees for oversight of patient care services, the university hospitals' support of the Ohio state university health sciences academic programs, shall be known as the university hospitals board (herein called board).

(1) The hospitals board will be composed of two members of the Ohio state university board of trustees (trustee members) and twelve citizens from the general public (citizen members), all appointed by the Ohio state university board of trustees in consultation with the president of the university. No employee of the university shall be eligible for board membership.

(2) The president of the Ohio state university shall be an ex-officio member of the hospitals board.

(3) Insofar as feasible, the selection criteria will ensure that the hospitals board membership will include persons with business expertise, persons with legal expertise, persons with knowledge of health care issues, persons knowledgeable about the academic mission of university hospitals, and persons who can assist the hospitals in its relations with the public and
governmental entities. Selection processes will incorporate the affirmative action policies of the university.

(4) The term of office for the twelve citizen members will be three years. At the discretion of the Ohio state university board of trustees, any citizen member may serve three consecutive full terms.

(5) In addition to the hospitals board members, the following, at the board's request, will participate in deliberations, will receive agenda and minutes, and from time to time will be invited to attend board meetings and other activities, and to submit agenda items:

Persons designated by the university's board of trustees as emeritus hospitals board members
Executive director of university hospitals
Deans of health sciences colleges
Medical director of university hospitals
Chief, hospitals medical staff, or equivalent position

(6) The president of the Ohio state university will serve as the university's primary administrative contact with the hospitals board and shall interpret proposals and recommend actions of the hospitals board to the university's board of trustees.

(7) The executive director of university hospitals will serve as the non-voting secretary to the board and provide such staff services for the board as may be requested.

(B) In carrying out its responsibilities as defined in rule 3335-93-02 of the Administrative Code, the board shall seek continuing guidance from health professionals, management specialists, and others with professional expertise. The hospitals board may choose to have a periodic review of university hospitals activities by a board of visitors. The visitors, consisting of persons of national eminence in health care fields, would be selected in consultation with the president of the university.

(C) In recognition of unique contributions to university hospitals, former members of the hospitals board may be designated by the University's board of trustees as emeritus hospitals board members. Emeritus hospitals board members will be non-voting members, and will serve for a three-year term of office.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the University Hospitals Board Bylaws be adopted as recommended by the University Hospitals Board.

Upon motion of Ambassador Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
July 8, 1988 meeting, Board of Trustees

DEGREES AND CERTIFICATES – SUMMER QUARTER COMMENCEMENT

Resolution No. 89-5

Synopsis: Approval is being requested for awarding degrees and certificates for Summer Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on September 1, 1988, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS

Resolution No. 89-6

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the June 3, 1988 meeting of the Board, including the following Appointments, Change in Title, Appointment of Chairpersons of Academic Faculty and Departments, Reappointments of Chairpersons of Departments and Directors of Centers, Leaves of Absence Without Salary, Leave of Absence Without Salary—Change of Dates, Professional Improvement Leaves, Professional Improvement Leaves—Change of Dates, Professional Improvement Leave—Cancellation, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved May 26, and June 23, 1988, by the Hospitals Board be ratified.

Appointments

Name: JAMES J. COUNTRYMAN
Title: Dean and Director/Adjunct Professor
Regional Campus: Lima
Department: Mathematics
Effective: August 15, 1988
Salary: $79,200.00
Present Position: Vice President for Academic and Student Affairs, State University of New York, College of Technology at Utica/Rome, Utica, New York
### PERSONNEL ACTIONS (contd)

#### Appointments (contd)

<table>
<thead>
<tr>
<th>Name:</th>
<th>DONALD HARRIS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Dean/Professor</td>
</tr>
<tr>
<td><strong>College/School:</strong></td>
<td>Arts/Music</td>
</tr>
<tr>
<td><strong>Effective:</strong></td>
<td>September 1, 1988</td>
</tr>
<tr>
<td><strong>Salary:</strong></td>
<td>$96,000.00</td>
</tr>
<tr>
<td><strong>Present Position:</strong></td>
<td>Dean, Hartt School of Music, University of Hartford, West Hartford, CT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name:</th>
<th>RICHARD M. HILL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Dean/Professor</td>
</tr>
<tr>
<td><strong>College:</strong></td>
<td>Optometry</td>
</tr>
<tr>
<td><strong>Effective:</strong></td>
<td>July 1, 1988</td>
</tr>
<tr>
<td><strong>Salary:</strong></td>
<td>$92,640.00</td>
</tr>
<tr>
<td><strong>Present Position:</strong></td>
<td>Associate Dean and Professor, College of Optometry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name:</th>
<th>BOBBY D. MOSER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Director/Associate Dean/Professor</td>
</tr>
<tr>
<td><strong>Office/College/Department:</strong></td>
<td>Cooperative Extension Service/Agriculture/Animal Science</td>
</tr>
<tr>
<td><strong>Effective:</strong></td>
<td>July 1, 1988</td>
</tr>
<tr>
<td><strong>Salary:</strong></td>
<td>$92,040.00</td>
</tr>
<tr>
<td><strong>Present Position:</strong></td>
<td>Associate Dean of Agriculture and Director of Agriculture Extension Programs, University of Missouri, Columbia, MO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name:</th>
<th>ROBERT STEARNS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Director/Associate Dean/Adjunct Professor</td>
</tr>
<tr>
<td><strong>Center/College/Department:</strong></td>
<td>Wexner Center for the Visual Arts/The Arts - Administration/Art</td>
</tr>
<tr>
<td><strong>Effective:</strong></td>
<td>October 1, 1988</td>
</tr>
<tr>
<td><strong>Salary:</strong></td>
<td>$92,040.00</td>
</tr>
<tr>
<td><strong>Present Position:</strong></td>
<td>Director, Performing Arts, Walker Art Center, Minneapolis, Minnesota</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name:</th>
<th>JOSEPH R. DRAGO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Professor (The Louis Levy Professorship for Cancer)</td>
</tr>
<tr>
<td><strong>College/Department:</strong></td>
<td>Medicine - Administration/Surgery</td>
</tr>
<tr>
<td><strong>Effective:</strong></td>
<td>June 1, 1988</td>
</tr>
<tr>
<td><strong>Salary:</strong></td>
<td>$59,880.00</td>
</tr>
<tr>
<td><strong>Present Position:</strong></td>
<td>Director/Professor, Department of Surgery - Division of Urology</td>
</tr>
</tbody>
</table>

#### Change in Title

<table>
<thead>
<tr>
<th>Name:</th>
<th>ROBERT L. ARNOLD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Associate Dean</td>
</tr>
<tr>
<td><strong>College:</strong></td>
<td>The Arts - Administration</td>
</tr>
<tr>
<td><strong>Effective:</strong></td>
<td>September 1, 1988</td>
</tr>
<tr>
<td><strong>Salary:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Present Position:</strong></td>
<td>Acting Dean, College of The Arts</td>
</tr>
</tbody>
</table>
July 8, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (cont'd)

Appointment of Chairpersons of Academic Faculty and Departments

July 1, 1988 through June 30, 1989

Family Medicine
Preventive Medicine

July 1, 1988 through June 30, 1992

Ophthalmology

October 1, 1988 through September 30, 1992

Academic Faculty of Marketing
Classics

*Acting Chair

Reappointments of Chairpersons of Departments and Directors of Centers

October 1, 1987 through September 30, 1991

Center for Comparative Studies

July 1, 1988 through June 30, 1989

Physical Medicine

July 1, 1988 through June 30, 1992

Internal Medicine
Otolaryngology
Pathology

October 1, 1988 through September 30, 1992

Anthropology
Center for Medieval and Renaissance Studies
Economics
Family and Community
Philosophy

Leaves of Absence Without Salary

CAROL D. AUSTIN, Associate Professor, College of Social Work, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to accept the position as Director of the Ohio Department of Aging.

DAVID G. PAULOWICH, Assistant Professor, Department of Mathematics (Lima Campus), effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, for personal reasons.
July 8, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Leave of Absence Without Salary—Change of Dates

REBECCA D. JACKSON, Assistant Professor, Department of Internal Medicine, change dates from October 19, 1987, through June 30, 1988, to October 19, 1987, through May 16, 1988.

Professional Improvement Leaves

LOREN V. GEISTFELD, Associate Dean, College of Home Economics, effective September 1, 1988, through June 10, 1989.

JOHN L. HEYWOOD, Associate Professor, School of Natural Resources, effective January 3, 1989, through June 15, 1989.

Professional Improvement Leaves—Change of Dates

JERRY M. BIGHAM, Associate Professor, Department of Agronomy, change leave from August 1, 1988, through July 31, 1989, to September 1, 1988, through July 31, 1989.

ROBERT J. STANTON, Associate Professor, Department of Mathematics, change leave from Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to Winter Quarter, Spring Quarter and Autumn Quarter 1989.

Professional Improvement Leave—Cancellation

DONALD A. SYLVAN, Associate Professor, Department of Political Science, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

Promotions and Tenure

College of Agriculture

SANTI R. BHOWMIK, Department of Food Science and Nutrition, tenure, effective September 1, 1989.

College of Education

DAVID E. FERNIE, Department of Theory and Practice, promotion to Associate Professor with tenure, effective October 1, 1988.

College of Humanities

WALTER A. DAVIS, Department of English, promotion to Professor, effective October 1, 1988.

KAREN SUE JEWELL, Department of Black Studies, tenure, effective October 1, 1988.

University Libraries

JAMES L. MURPHY, University Libraries, promotion to Associate Professor with tenure, effective July 1, 1988.
July 8, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Medicine

JOHN FREDERICK CORNHILL, Department of Surgery, promotion to Professor, effective October 1, 1988.

GOPI A. TEJWANI, Department of Pharmacology, promotion to Associate Professor, effective July 1, 1988.

College of Social and Behavioral Sciences

BRIAN M. POLLINS, Department of Political Science, promotion to Associate Professor with tenure, effective October 1, 1988.

ANTHONY R. WALKER, Department of Anthropology, tenure, effective October 1, 1989.

College of Veterinary Medicine

KENT H. HOBLET, Department of Veterinary Preventive Medicine, promotion to Associate Professor with tenure, effective July 1, 1988.

Emeritus Titles

JAMES H. WILLIAMS, College of Medicine - Administration and Department of Obstetrics and Gynecology, with the title Associate Dean and Professor Emeritus, effective July 1, 1988.

JAMES S. BIDDLE, Lima Campus and Department of Mathematics, with the title Dean and Director and Assistant Professor Emeritus, effective July 1, 1988.

DAVID L. BICKELHAUPT, Academic Faculty of Finance, with the title Professor Emeritus, effective July 1, 1988.

D. LYLE GOLEMAN, Cooperative Extension Service, with the title Professor Emeritus, change effective date from July 1, 1988, to January 1, 1989.

ROBERT D. LARUE, Department of Engineering Graphics, with the title Professor Emeritus, effective July 1, 1988.

CHARLES V. MECKSTROTH, Department of Surgery - Thoracic and Cardiovascular Surgery, with the title Professor Emeritus, effective July 1, 1988.

RAYmond H. MUessIG, Department of Educational Studies: Humanities, Science, Technological and Vocational, with the title Professor Emeritus, effective July 1, 1988.

THOMAS H. ROCKWELL, Department of Industrial and Systems Engineering, with the title Professor Emeritus, effective July 1, 1988.
July 8, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

CHARLES W. SMITH, Department of Physiology, with the title Professor Emeritus, effective July 1, 1988.

ROBERT D. TOUSE, School of Natural Resources, with the title Professor Emeritus, effective July 1, 1988.

ELDRIDGE A. WHITEHURST, Department of Civil Engineering, with the title Professor Emeritus, effective July 1, 1988.

M. JEAN DAUBENMIRE, Department of Family and Community, with the title Associate Professor Emeritus, effective July 1, 1988.

CLAIR A. JOHNSON, School of Allied Medical Professions, with the title Associate Professor Emeritus, effective August 1, 1988.

RICHARD C. KELSEY, Department of Educational Services and Research, with the title Associate Professor Emeritus, effective July 1, 1988.

JOSEPH C. MCCLANAHAN, Cooperative Extension Service, with the title Associate Professor Emeritus, effective July 1, 1988.

MARY SEATON BREESE, School of Allied Medical Professions, with the title Assistant Professor Emeritus, effective July 1, 1988.

ALAN W. ENGLE, Department of English (Marion Campus), with the title Assistant Professor Emeritus, effective July 1, 1988.

MARY F. HULL, School of Health, Physical Education and Recreation, with the title Assistant Professor Emeritus, effective July 1, 1988.

HELEN L. WALLACE, Department of Life Span Process, with the title Assistant Professor Emeritus, effective July 1, 1988.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

RESOLUTIONS IN MEMORIAM

Resolution No. 89-7

Synopsis: Resolutions honoring the service of six of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.
July 8, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Donald J. Borror

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 28, 1988, of Donald J. Borror, Professor Emeritus in the Department of Entomology.

Professor Donald J. Borror was born on August 24, 1907, in Shepard (Franklin County), Ohio. He graduated from Columbus North High School in 1924 and from Otterbein College (magna cum laude) in 1928, with a B.S. degree, majoring in biology and education. He then entered The Ohio State University as a graduate assistant in Zoology. He received his M.S. degree in 1930 and his Ph.D. in 1935 (both in Entomology).

Dr. Borror spent his entire professional career teaching and conducting research at The Ohio State University. He was a Graduate Assistant (1928-1930), Instructor (1930-1946), Assistant Professor (1946-1948), Associate Professor (1948-1959), and Professor (1959 until his retirement in 1977). Upon his retirement he was named Professor Emeritus. This service was interrupted from 1944 to 1946 by World War II, when he served as a U.S. Naval officer in the Pacific Theater.

Throughout his career, Dr. Borror was interested in research on insects, especially dragonflies and damselflies and, from the early 1950's until his death, on animal sounds, especially bird songs. Besides serving as major professor to numerous graduate students both in Entomology and Bioacoustics, he leaves an indelible mark for research in both disciplines.

In Entomology he was senior author of the classic, "Introduction to the Study of Insects," of which a sixth edition is in final preparation. He also was senior author of "A Field Guide to the Insects of America North of Mexico" (with Richard E. White), and "Dictionary of Word Roots and Combining Forms," in addition to 24 scientific papers on insects.

In the fields of Ornithology and Bioacoustics, he produced 11 phonograph records (10 on birds, 1 on insects) and published over 50 scientific papers on birds and animal sounds. The Bioacoustics Laboratory at The Ohio State University was officially designated the Borror Laboratory of Bioacoustics in 1977.

Dr. Borror's ability to concentrate completely on a given project and seemingly never wasting a moment nor a motion is legendary among students and faculty at Ohio State. When asked by a colleague how he managed to accomplish so much his reply was: "I do all my coffee drinking at mealtime."

On behalf of the University community, the Board of Trustees expresses to the family of Dr. Borror its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.
RESOLUTIONS IN MEMORIAM (contd)

James K. Duncan

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 1, 1988, of James K. Duncan, Professor Emeritus in the Department of Educational Policy and Leadership.

Professor Duncan was born in Barre, Vermont, on August 1, 1917, and began his affiliation with The Ohio State University as an Associate Professor in the College of Education in 1965, where he was promoted to full Professor in 1968. He received his B.S. in Engineering, M.A. in Secondary Education from the University of Vermont, and earned his Ed.D. from the University of Florida in 1954. Prior to coming to Ohio State, Professor Duncan taught at both Temple University and Keene State College. Dr. Duncan made numerous contributions to the fields of curriculum and instruction in his classroom teaching and in his research while at The Ohio State University. He was especially noted for his work in evaluation and classroom interaction studies. His related interests included research with the Vocational Rehabilitation Center in New Hampshire, consulting on the federal project, "Comprehensive Evaluation and Vocational Rehabilitation Services to Disabled Assistance Clients in a Residential Rehabilitation Center." Upon his retirement in 1982, he was named Professor Emeritus.

Professor Duncan was held in the highest esteem by students, colleagues, and staff members. During his tenure, Dr. Duncan served as major advisor and Ph.D. committee member for numerous graduate students. He was viewed by many colleagues and students as the professor who had the highest capability for advising and guiding dissertation work. Dr. Duncan's students have made considerable contributions to the field of education at prestigious universities throughout the United States.

We have great appreciation and admiration for this man who was a gentle person, a scholar, and a respected educator.

On behalf of the university community, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Ting Y. Li

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 26, 1988, of Ting Y. Li, Professor Emeritus in the Department of Aeronautical and Astronautical Engineering.

Dr. Li was born on December 19, 1918, in Peiping, China. He received his B.S. degree from the National Central University, China, in 1940, and his Ph.D. from the California Institute of Technology in 1950.

Dr. Li joined the faculty at The Ohio State University in 1964. Previously, Dr. Li held faculty positions at the Rensselaer Polytechnic Institute and at the University of Cincinnati. Upon his retirement in 1980, he was named Professor Emeritus. During his employment at The Ohio State University his research interests included hypersonics, geophysical fluid mechanics, and environmental sciences.
RESOLUTIONS IN MEMORIAM (contd)

Ting Y. Li (contd)

Dr. Li was a member of the American Rocket Society, the Institute of Aeronautical Sciences, American Institute of Aeronautics and Astronautics, and the New York Academy of Sciences. His accomplishments included thirty-seven publications and consulting services to Aercon Incorporated, General Electric Company, Convair Scientific Research Laboratory, and Rand Corporation.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Dr. Li. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Harvey C. Mansfield

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 4, 1988, of Harvey C. Mansfield, Professor Emeritus in the Department of Political Science.

Professor Mansfield was born in Cambridge, Massachusetts, on March 3, 1905. He graduated from Cornell University in 1927 with a B.A. degree and in 1928 with a M.A degree. In 1932, he received the Ph.D. degree from Columbia University. Professor Mansfield taught at Yale University from 1929 to 1942 and was later visiting professor at Stanford and Harvard Universities. During World War II, Dr. Mansfield was an executive in the Federal Office of Price Administration. Later he served as staff member and consultant to the United States military government in Germany; the Mayor's Commission on Management in New York (1951); the Connecticut Commission on State Government Organization (1950); the United States Commission in Intergovernmental Relations (1954 to 1955); and to the House of Representatives Banking and Currency Committee (1963).

Dr. Mansfield was author of three books and numerous scholarly articles. From 1956 to 1965, he served as Editor of his discipline's leading journal, The American Political Science Review.

Dr. Mansfield was appointed Professor at The Ohio State University in 1947. From 1947 until 1959, Dr. Mansfield served as Chairperson of the Department of Political Science. Following retirement from The Ohio State University in 1965, Professor Mansfield accepted an appointment at Columbia University, teaching there as Ruggles Professor of Public Law and Government until his retirement in 1973.

The Department of Political Science of The Ohio State University pays tribute to Professor Harvey Mansfield's effective leadership as its Chairperson, to the memory of his unfailing civility, and to his many distinguished contributions to the discipline of Political Science.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.
RESOLUTIONS IN MEMORIAM (contd)

Leo G. Staley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 4, 1988, of Leo G. Staley, Professor Emeritus in the School of Health, Physical Education and Recreation.

A native of Johnstown, New York, Professor Staley was a graduate of The Ohio State University where he received his B.S. degree in 1928, and his M.S. in 1931. Joining the Ohio State faculty in 1924, he served both as an Instructor and a Coach of Gymnastics. In 1931, he was made an Assistant Professor; Associate Professor and Director of Intramural Sports in 1937; and Professor in 1950. Upon his retirement in 1964, he was named Professor Emeritus.

During his 40 years as a member of The Ohio State University faculty and throughout his long service as Director of Intramural Sports, Leo G. Staley maintained close ties with the students he served. As Director, Professor Staley brought a dedication and vitality to his post. His keen sense of the needs of the students enabled him to expand Ohio State's program and laid groundwork for what is recognized today as one of the leading programs in the nation. In addition to his teaching and intramural duties, he was active in many aspects of campus life. He was a charter member of Ohio Staters, Inc., and an officer in the Faculty Club. For almost 30 years he was the "Voice of the Buckeyes" at all home football and basketball games. For 20 years he was the Manager of the Ohio High School Athletic Association Baseball Tournaments.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Emmerich von Haam, Sr.

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 14, 1988, of Emmerich von Haam, Sr., Professor Emeritus in the Department of Pathology.

Born in Vienna, Austria, Dr. von Haam received his medical degree from the University of Vienna and came to the United States on a Rockefeller Foundation Scholarship. He remained in the United States to accept positions at the Universities of Arkansas and Louisiana State. He was appointed Chairman of Pathology at The Ohio State University in 1937, a position he held until 1967. Upon his retirement in 1973, he became Professor Emeritus.

Dr. von Haam served in the U.S. Army during World War II, attaining the rank of Colonel. After the war, he served for many years as Consultant to the Surgeon General of the Army, the U.S. Air Force, the Veterans Administration, the U.S. Public Health Service, and the Armed Forces Institute of Pathology.

Dr. von Haam was a researcher, teacher, and diagnostician of world distinction. He published 390 monographs and professional articles
July 8, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Emmerich von Haam, Sr. (contd)

mostly in the field of cancer detection, cytopathology, and histopathology of cancer and he lectured and taught worldwide. Aside from all his important professional accomplishments and his outstanding leadership qualities, Dr. von Haam was one of the most beloved individuals in our group. He always found a good word about every one of us, he was a devoted husband to his wife Ruth, a charming and gracious host, and above all a real friend whom we will miss and cherish.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Barone, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-8

Synopsis: The reports on contracts, grants, and gifts and the summary for May 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of May 1988 be approved.

Upon motion of Ambassador Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR MAY 1988

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>98</td>
<td>$8,460,088.69</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>37</td>
<td>$329,774.00</td>
</tr>
<tr>
<td>Total</td>
<td>135</td>
<td>$8,789,862.69</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- Columbia Gas - University Honors Scholarship Endowment Fund (Scholarships) $25,000.00
- Shih-Yuan Michael Chen Scholarship Fund (Scholarships to students enrolled in the College of Engineering who are from the Nanjing Institute of Technology, China) $15,000.00
- Senior Medical Student Achievement Award (Award for academic achievement, service leadership, clinical skills and humanitarian activities to a senior medical student or resident) $11,071.62
Federal Research Contracts/Grants

$1,500,000.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Altan), 1 May 1988 through 30 April 1989. (Project 765393 - Continuation)

$962,543.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Regional Resource Center, College of Education - Administration (T. M. Stephens), 1 June 1988 through 31 May 1989. (Project 766183 - Continuation)


$195,000.00 - National Science Foundation, Washington, D.C., Spectroscopic Studies of Clusters and Their Chemistry, Department of Chemistry (V. E. Bondybey), 1 May 1988 through 31 October 1989. (Project 766722 - New)

$177,026.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Upward Bound Program, Office of Minority Affairs (L. G. Morrow), 1 September 1988 through 31 August 1989. (Project 765655 - Continuation)

$167,848.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Polycondensed Alicyclics and Their Antiviral Role, Department of Chemistry (L. A. Paquette), 1 May 1988 through 30 April 1989. (Project 763920 - Continuation)

$151,934.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genotoxicity in Human Fetal Brain, Dermis and Kidney Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 June 1988 through 31 May 1989. (Project 763673 - Continuation)


$143,477.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Metabolism of (N-3) Fatty Acids, Department of Physiological Chemistry (H. W. Sprecher), 1 April 1988 through 31 March 1989. (Project 760745 - Continuation)
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$135,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Molecular Biology of the Extremely Thermophilic Archaeabacterium, Methanothermus fervidus, Department of Microbiology (J. N. Reeve), 1 April 1988 through 30 September 1989. (Project 765291 - Continuation)

$135,000.00 - National Science Foundation, Washington, D.C., Research in Astrophysics, Medium Energy Physics, and Fundamental Particles, Department of Physics (R. N. Boyd), 1 May 1988 through 31 October 1989. (Project 765332 - Continuation)

$135,000.00 - National Science Foundation, Washington, D.C., The Spectroscopy of Chemical Intermediates and Other Transient Species, Department of Chemistry (T. A. Miller), 1 June 1988 through 30 November 1989. (Project 764814 - Continuation)

$132,733.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Acute Phase Reactants: Induction and Host Resistance, Department of Microbiology (R. F. Mortensen), 1 July 1988 through 30 June 1989. (Project 762354 - Continuation)


$129,615.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemical Probes of the Active Site of Aromatase, College of Pharmacy (R. W. Brueggemeier and S. Black), 1 May 1988 through 30 April 1989. (Project 766718 - New)

$125,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Optical Scattering Studies, ElectroScience Laboratory, Department of Electrical Engineering (S. A. Collins, Jr.), 1 July 1987 through 30 September 1988. (Project 764394 - Continuation)

$117,117.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Dietary Fat: Physiological Function, Department of Physiological Chemistry (H. W. Sprecher), 1 May 1988 through 30 April 1989. (Project 764415 - Continuation)


$98,665.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gastric
Federal Research Contracts/Grants (contd)

Function -- Central Control, Department of Physiology (R. C. Rogers), 1 July 1988 through 30 June 1989. (Project 765541 - Continuation)

$95,484.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, FSH and the Regulation of Ovarian Folliculogenesis, Department of Anatomy (B. E. Batten), 1 April 1988 through 31 March 1989. (Project 765914 - Continuation)

$86,635.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Novel Uracils, Pyrimidines, Azoles and Purines, Department of Chemistry (H. Shechter), 1 June 1988 through 31 May 1989. (Project 762793 - Continuation)

$85,819.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 14 April 1988 through 13 October 1988. (Project 765385 - Continuation)

$80,091.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Acute Regulation of Casein Secretion and Degradation, Department of Veterinary Pathobiology (C. L. Brooks), 1 May 1988 through 30 April 1989. (Project 765962 - Continuation)

$80,000.00 - Department of Energy, Argonne, Illinois, Study of the Basis for the Competitiveness of *Rhizobium japonicum* in the Nodulation of Soybean, Department of Agronomy - OARDC and Department of Agronomy (W. D. Bauer) and Department of Agronomy - OARDC and Department of Plant Pathology (D. L. Coplin), 15 May 1988 through 14 May 1989. (Project 765360 - Continuation)

$72,743.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Toxicity of 5-Fluorouracil and Leucovorin, College of Pharmacy (J. L. S. Au), 21 May 1988 through 30 April 1989. (Project 766016 - Continuation)

$67,756.00 - Department of Energy, Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania, Extraction, Separation, and Analysis of High Sulfur Coal, Department of Chemistry (S. V. Olesik), 1 January 1990 through 27 July 1990. (Project 766327 - Continuation)

$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Metallurgical Engineering (R. H. Wagoner), 1 July 1988 through 30 June 1989. (Project 764071 - Continuation)

$61,350.00 - National Science Foundation, Washington, D.C., Topics in Arithmetic Theory of Quadratic Forms, Department of Mathematics (J. S. Hsia), 1 June 1988 through 30 November 1990. (Project 766746 - New)
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Agency</th>
<th>Project Description</th>
<th>Dates</th>
<th>Project Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>$61,112.00</td>
<td>National Science Foundation, Washington, D.C., Glaciology in Central Greenland, Byrd Polar Research Center (D. H. Elliot and J. Bolzan), 1 May 1988 through 30 April 1989.</td>
<td>(Project 765363 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$60,965.00</td>
<td>Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Three-Dimensional Structure of Boundary Layers in Transition to Turbulence, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 April 1988 through 31 March 1989.</td>
<td>(Project 766695 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$51,459.00</td>
<td>Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mediastinal Effects on Pulmonary Function, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 June 1988 through 31 May 1989.</td>
<td>(Project 766765 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$50,000.00</td>
<td>National Science Foundation, Washington, D.C., DNA Mismatch Repair and DNA Methylation in Plants, Biotechnology Programs and Department of Molecular Genetics (D. M. Bisaro) and Biotechnology Programs (P. E. Kolattukudy), 1 July 1988 through 30 June 1989.</td>
<td>(Project 766388 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$49,960.00</td>
<td>Department of the Navy, Office of Naval Research, Washington, D.C., Stable Compositions for Fluoride Glasses, Department of Ceramic Engineering (P. K. Gupta), 1 June 1988 through 1 January 1989.</td>
<td>(Project 766261 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$40,000.00</td>
<td>National Science Foundation, Washington, D.C., Automatic Light Scattering Gonimeter and Photon Correlator for Colloidal Polymer, Biochemical, and Pharmaceutical Research, Department of Chemical Engineering (J. L. Zakin, L. J. Lee and S. T. Yang) and College of Pharmacy (S. G. Frank), 1 July 1988 through 31 January 1990.</td>
<td>(Project 766739 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$36,000.00</td>
<td>Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Public Service Fellowship Program, School of Public Administration (A. E. Merget), 1 September 1988 through 31 August 1989.</td>
<td>(Project 766747 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$34,842.00</td>
<td>Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Coronary Patients' Response to Noise and Communication, Department of Life Span Process (C. F. Baker), 1 June 1988 through 31 May 1989.</td>
<td>(Project 766732 - New)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Federal Research Contracts/Grants (contd)

$34,519.00 - National Science Foundation, Washington, D.C., Phonetic Investigation of Metrical Structure in Orally Produced Poetry, Department of Linguistics (I. Lehiste), 15 April 1988 through 30 September 1989. (Project 766729 - New)

$33,695.00 - National Science Foundation, Washington, D.C., Diatom Biostatigraphy and Antarctic Glacial History Through Reworked and In Situ Microfossils, Byrd Polar Research Center (D. H. Elliot), 1 May 1988 through 30 April 1989. (Project 766757 - New)

$31,100.00 - National Science Foundation, Washington, D.C., Cyclic Homology, Algebra, Topology, and Geometry, Department of Mathematics (D. Burghelea), 1 December 1988 through 30 November 1989. (Project 766187 - Continuation)

$28,406.00 - National Science Foundation, Washington, D.C., Research Agenda for Production and Service Systems, Department of Industrial and Systems Engineering (G. L. Smith), 1 May 1988 through 31 December 1988. (Project 766716 - New)

$27,560.00 - National Science Foundation, Washington, D.C., Application of Measure Theory to Probability and Banach Spaces, Department of Mathematics (M. Talagrand), 1 June 1988 through 30 November 1989. (Project 766743 - New)

$27,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Toxicology of Hydantoins in Relation to Oral Biology, Department of Pharmacology (D. Couri and D. A. vonDeutsch), 1 May 1988 through 30 April 1989. (Project 764537 - Continuation)

$26,004.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Lymphocyte-Mediated Bone Resorption, Department of Veterinary Pathobiology (C. C. Capen and L. K. McCauley), 7 June 1988 through 6 June 1989. (Project 766748 - New)

$10,000.00 - National Science Foundation, Washington, D.C., A Study of Conceptual Mechanical Design Process, Department of Engineering Graphics (M. B. Waldron), Department of Mechanical Engineering (K. J. Waldron) and Department of Psychology (D. H. Owen), 1 September 1986 through 28 February 1989. (Project 765682 - Continuation)

$9,420.00 - National Science Foundation, Washington, D.C., Raman and Spatially Resolved Spectroelectrochemistry, Department of Chemistry (R. L. McCreery), 1 January 1988 through 30 June 1989. (Project 764803 - Continuation)

$9,295.00 - National Science Foundation, Washington, D.C., Sedimentology of the Permian-Triassic Gondwana Sequence in the Central Transantarctic Mountains, Byrd Polar Research Center and Department of Geology and Mineralogy (J. W. Collinson) and Department of Geology and Mineralogy (L.
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Krissek), 1 May 1987 through 31 August 1988. (Project 764678 - Continuation)

$7,506.00 - National Science Foundation, Washington, D.C., Computational Studies of Vortex Flow, Department of Mathematics (G. R. Baker), 16 June 1988 through 31 December 1989. (Project 766749 - New)

$2,540.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Mercury Toxicity and Carcinogenicity in Human Cells, Department of Microbiology and Immunology (M. V. Williams), 1 February 1988 through 31 January 1989. (Project 766606 - Continuation)

TOTAL - FEDERAL AWARDS $6,303,141.87

State of Ohio Research Contracts/Grants

$56,874.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Education for Non-Violent Management of Child Behavior, College of Medicine - Administration (G. L. Trzebiatowski), 1 April 1988 through 31 March 1989. (Project 766694 - New)

$55,650.00 - State of Ohio, Department of Health, Columbus, Ohio, Perinatal Outreach Education Program, Department of Pediatrics (L. Cordero), 1 October 1987 through 30 September 1988. (Project 764100 - Continuation)

$36,270.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Managing Child Behavior, College of Medicine - Administration (G. L. Trzebiatowski), 1 April 1988 through 31 March 1989. (Project 766725 - New)

$25,087.00 - State of Ohio, Department of Human Services, Columbus, Ohio, GRADS Education for Managing Child Behavior, College of Medicine - Administration (G. L. Trzebiatowski), 1 April 1988 through 31 March 1989. (Project 766724 - New)

$4,411.76 - State of Ohio, Department of Education, Columbus, Ohio, TRIO Subsidy Program, Office of Minority Affairs (L. G. Morrow), 1 May 1988 through 30 June 1988. (Project 766723 - New)

$3,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Vegetation Analysis and Mapping of the Sears and Carmean State Nature Preserves, Crawford County, Ohio, Department of Botany (R. E. J. Boerner), 30 March 1988 through 1 June 1989. (Project 766714 - New)

$1,012.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Photography: The Second Revolution, College of The Arts - Administration (M. Nadin), 5 March 1988 through 30 April 1988. (Project 766703 - New)

$1,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Sonia Sanchez, Poet and Critic, Center for Women's Studies (M. M. Fonow) and
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

Center for Women's Studies and Department of English (M. Longenecker), 5 April 1988 through 13 July 1988. (Project 766734 - New)

TOTAL - STATE OF OHIO AWARDS $183,304.76

Industrial Research Contracts/Grants

$60,000.00 - Brunswick Corporation, Marion, Virginia, Wedge Studies, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 1 March 1988 through 28 February 1989. (Project 766719 - New)

$54,000.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 1 May 1988 through 30 September 1988. (Project 766726 - New)

$53,087.00 - Marion Laboratories, Inc., Kansas City, Missouri, Therapeutic Trials of Campylobacter pylori Gastritis, Department of Veterinary Pathobiology (G. S. Krakowka), 1 May 1988 through 30 April 1989. (Project 766744 - New)

$25,000.00 - Digital Equipment Corporation, Marlboro, Massachusetts, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 25 May 1988 through 24 May 1989. (Project 766219 - Continuation)


July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$13,762.06 - A. H. Robins Company, Richmond, Virginia, Antagonism of Telazol® (Tiletamine HCl/Zolezepam HCl) in Dogs and Cats, Department of Veterinary Clinical Sciences (W. W. Muir III), 1 May 1988 through 31 December 1988. (Project 766754 - New)


$12,000.00 - Teledyne CAE, Toledo, Ohio, Propfan Characterization Study, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr.), 1 June 1987 through 31 May 1988. (Project 766312 - Continuation)

$10,000.00 - Universal Energy Systems, Inc., Dayton, Ohio, Demonstration of Parallel Computation for a 3D-Rigid Viscoelastic Finite Element Method, Department of Computer and Information Science (P. Sadayappan, F. E. Ozguner and K. Schwan) and Department of Electrical Engineering (B. Welde), 19 July 1988 through 15 August 1988. (Project 765894 - Continuation)

$8,000.00 - Oral-B Laboratories, Redwood City, California, A Study of Dental Hygienists' Perceived Limitations or Barriers to Utilization of Periodontal Assessment and Documentation Skills in the Private Sector, Dental Hygiene (M. J. Hicks), 1 April 1988 through 30 June 1989. (Project 766727 - New)

$5,546.00 - Ross Laboratories, Columbus, Ohio, Use of the Electrogastrogram in Verifying Placement of a New Nasoenteric Feeding Tube, Department of Family Medicine (L. Vandecreek), 1 May 1988 through 30 June 1988. (Project 766750 - New)

$5,100.00 - CeramPhysics, Inc., Westerville, Ohio, Monolithic Ceramic Superconductor Development, Department of Physics (B. R. Patton), 15 March 1988 through 21 August 1988. (Project 766760 - New)

$500.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, High Strain Rate Testing of A533B Steel at Various Temperatures, Department of Engineering Mechanics (A. Gilat), 1 April 1988 through 31 July 1988. (Project 766019 - Continuation)

TOTAL - INDUSTRIAL AWARDS $ 346,979.06

Other Non-Federal Research Contracts/Grants

$1,000,000.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Burma Agricultural Production Project, Office of International Programs in Agriculture (D. O. Hansen), 1 May 1988 through 31 March 1992. (Project 766452 - Continuation)
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$212,505.00 - Brookhaven National Laboratory, Upton, Long Island, New York, Boron-Neutron Capture Therapy of Cancer, Department of Pathology (R. F. Barth), College of Pharmacy (A. H. Soloway), Department of Mechanical Engineering (T. Aldemir and T. E. Blue), Department of Neurology (N. R. Clendenon) and Department of Surgery (J. H. Goodman), 1 February 1988 through 30 September 1988. (Project 766081 - Continuation)

$67,021.00 - Institute of Gas Technology, Chicago, Illinois, Microbial Desulfurization and Denitrification of Eastern Oil Shales, Department of Microbiology (P. R. Dugan and R. M. Pfister), 1 December 1987 through 31 March 1989. (Project 766497 - Continuation)

$43,000.00 - Wisconsin Milk Marketing Board, Madison, Wisconsin, Controlling Quality Factors in "Gourmet Cookies" Made With Butter, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (G. W. Chism III and P. M. T. Hansen), 1 January 1988 through 31 December 1989. (Project 766587 - New)

$36,225.00 - Council for Tobacco Research, New York, New York, Biological Synergism Between Glucarate and Retinoids, Department of Physiological Chemistry (T. E. Webb), 1 July 1988 through 30 June 1989. (Project 766741 - New)

$34,999.00 - The National Council for Soviet and East European Research, Washington, D.C., Disadvantaged Groups and Backward Regions in the Soviet Union, Department of Geography (Y. Medvedkov) and Mershon Center for Education (O. Medvedkov), 1 July 1988 through 30 June 1989. (Project 766762 - New)

$34,566.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1987 through 30 June 1988. (Project 760113 - Continuation)


$33,000.00 - American Heart Association, Dallas, Texas, Hydraulic Load in Congestive Heart Failure (CHF): Response to Vasodilator, Department of Internal Medicine (F. F. Binkley), 1 July 1988 through 30 June 1989. (Project 766742 - Continuation)

$25,000.00 - The Nature Conservancy, Columbus, Ohio, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 January 1988 through 31 December 1988. (Project 766219 - Continuation)

$24,909.00 - Getty Center for Education in the Arts, Los Angeles, California, Development of an Art Education Preservice Course for Teaching and Learning Aesthetics, Department of Art Education (E. L.
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Lankford), 1 January 1988 through 31 December 1988. (Project 766690 - New)

$17,893.00 - The Pennsylvania State University, University Park, Pennsylvania, Measurement of Forest Condition and Response Along an Atmospheric Deposition Gradient, Laboratory for Environmental Science - OARDC (J. R. McClenahen), 1 October 1987 through 31 December 1987. (Project 766713 - Continuation)

$14,686.00 - Indiana Department of Mental Health, Indianapolis, Indiana, Indiana Homeless Mentally Ill Mobile Screening and Case Management Project, College of Social Work (R. J. First), 1 December 1987 through 30 November 1988. (Project 766720 - New)

$12,000.00 - United States Olympic Committee, Colorado Springs, Colorado, Blood Indices of Muscle Oxidant Stress as Markers of Overtraining for Rovers, School of Health, Physical Education and Recreation (W. M. Sherman and D. R. Lamb), 1 March 1988 through 28 February 1989. (Project 766761 - New)

$10,000.00 - Children's Hospital Research Foundation, Columbus, Ohio, Intestinal Transplantation in Inbred Rats, Department of Internal Medicine (P. J. Tutschka), 1 August 1987 through 31 July 1988. (Project 764924 - Continuation)

$10,000.00 - University of California, Santa Barbara, California, The Processing and Mechanical Properties of High Performance Materials, Department of Metallurgical Engineering (J. P. Hirth), 15 October 1987 through 14 October 1988. (Project 765876 - Continuation)

$6,286.00 - Ohio Pork Producers Council, Westerville, Ohio, Economic Implications and Biological Factors Related to Poor Growth Performance of Growing Pigs ("Tail-Enders"), Department of Animal Science - OARDC and Cooperative Extension State Operations (G. C. Shurson) and Department of Animal Science - OARDC and Department of Animal Science (M. E. White, K. M. Irvin and T. G. Ramsay), 28 October 1987 through 27 October 1988. (Project 766731 - New)


$2,000.00 - American Chemical Society, Washington, D.C., Calcium and Cardiovascular Disease, Department of Physiological Chemistry (J. D. Johnson) and College of Medicine - Administration (C. L. Yash), 13 June 1988 through 12 August 1988. (Project 766737 - New)

$2,000.00 - American Chemical Society, Washington, D.C., 60 Kilodalton Oncofetal Protein as a Tumor Marker, Department of Physiological Chemistry (T. E. Webb) and College of Medicine - Administration (C. L. Yash), 13 June 1988 through 12 August 1988. (Project 766738 - New)
Other Non-Federal Research Contracts/Grants (contd)


$500.00 - University of Illinois, Urbana, Illinois, Cooperative Grain Flow Survey, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (E. D. Baldwin), 1 January 1987 through 15 June 1988. (Project 765927 - Continuation)

$22.00 - Indonesia Government, Jakarta, Indonesia, Indonesian Visiting Scholar Program -- Task Order E, College of Education - Administration (J. J. Buffer), 15 September 1987 through 15 April 1988. (Project 765362 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $1,626,663.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$50,000.00 - Ohio Air Quality Development Authority, Columbus, OH, "Correlation of Measured Radon Soil Concentration and Measured Uranium Concentration of Ohio Shale and Radon Coefficients and Thickness of Soil and Soil Sediments," Nuclear Engineering Program, Department of Mechanical Engineering, 1 May 1988 through 30 June 1989. (529757)

$46,892.00 - Additional budget from the Ohio Industrial Commission, Columbus, OH, "Evaluation of the Motion Component in Manual Lifting - Stage 2," Department of Industrial and Systems Engineering, 1 January 1987 through 30 June 1988. (529720, Ext. 2)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $ 96,892.00

Industrial and Other Sponsored Research and Development

$170,000.00 - from various industry for "Membership in Engineering Research Center on Net Shape Manufacturing," Engineering Experiment Station. (529200)

$28,707.00 - from 30 sponsors of 32 development projects in two research areas of the College.
July 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)


$9,618.00 - General Electric, Cincinnati, OH, "Advanced Engine Graphical Analysis," Department of Computer and Information Science, 1 April 1988 through 30 September 1988. (529755)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $232,882.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

Columbia Gas - University Honors Scholarship Endowment Fund

The Columbia Gas - University Honors Scholarship Fund was established July 8, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Columbia Gas Distribution Companies.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support an academic undergraduate scholarship or scholarships. The scholarship(s) will be awarded annually and can be renewed for the recipient each year for a maximum of four years, pending a yearly review by the University Honors Center. Preference will be given to any entering freshman whose permanent residence is within the areas served by Columbia Gas Distribution. This merit award will be in recognition of a student's outstanding high school academic achievement and promise. Selection will be made by the staff of the University Honors Center.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

Shih-Yuan Michael Chen Scholarship Fund

The Shih-Yuan Michael Chen Scholarship Fund was established July 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Chen family, in memory of Dr. Shih-Yuan Michael Chen, Ph.D. '55.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of
Establishment of Named Funds (contd)

Shih-Yuan Michael Chen Scholarship Fund (contd)

The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students enrolled in the College of Engineering who are from Nanjing Institute of Technology, China. If there are no applicants from Nanjing Institute of Technology, then the scholarship(s) shall be awarded to engineering students from Mainland China, or, if none apply, to Chinese-American students enrolled in the College of Engineering. Scholarship recipients will be chosen by the Dean of the College of Engineering in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Senior Medical Student Achievement Award

The Senior Medical Student Achievement Award was established July 8, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Medical Society of The Ohio State University Hospitals.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be offered to a senior medical student or resident as an award for academic achievement, service leadership, clinical skills and humanitarian activities. The recipient shall be selected by the officers of the medical staff of The Ohio State University Hospitals in consultation with the Dean or Associate Dean for Academic Affairs in the College of Medicine. All requisitions for funds are to be approved by the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to recommendations from the Dean of the College of Medicine, and the officers of the medical staff of University Hospitals in order to carry out the desire of the donors.
July 8, 1988 meeting, Board of Trustees

EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST FOR CONSTRUCTION BIDS
UNIVERSITY AIRPORT RENOVATIONS – 1988/1989
Resolution No. 89-9

Synopsis: Authorization to employ an architectural/engineering firm and request construction bids is proposed.

WHEREAS The Ohio State University has obtained a grant from the Federal Aviation Administration to provide 90% funding ($352,000.00) for airport renovation work consisting of updating taxiway guidance and hold signs to bring them into conformance with current FAA standards; repairing Runway 9L - 27R and overlaying it with asphalt; and constructing an asphalt apron between Hangars 4 and 9 for aircraft parking and taxiing; and

WHEREAS the remaining 10% ($39,111.00) of this project will be funded from University funds, for a total project cost of $391,111.00:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to select a qualified architectural/engineering firm for this project, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Ambassador Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
Resolution No. 89-10

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to award contracts for Central Service Building Renovation, Doan Hall - Elevator Modernization, Pressey Hall Remodeling Phase II (University Press), and Put-In-Bay Campus Facilities Phase I - Sewage Treatment Improvements projects; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administration, Division of Public Works, the award of contracts for the University Hospitals - Renovation and Addition to Chilled Water, and the
July 8, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

Grape Research Facility, Ohio Agricultural Research and Development Center projects as follows:

CENTRAL SERVICE BUILDING RENOVATION

Description: This project provides for the renovation of Central Service Building. The remodeling of the second and third floors will provide general classroom space; the renovation of the fourth floor will provide space for the University Architect's Office; and the renovation of the basement and ground floor will provide utility services to support the University Bookstores operations. Construction is scheduled to begin June 1988. The classroom portion is to be completed by December 1988, with the balance of the renovation scheduled to be completed in March 1989.

General Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 3, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>8</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$2,867,850.00*</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$3,040,500.00*</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$2,997,250.00*</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>Cleveland Construction, Mentor, OH</td>
</tr>
</tbody>
</table>

Plumbing Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 3, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>3</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$245,899.00*</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$274,500.00*</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$305,300.00*</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>J. A. Croson Inc., Columbus, OH</td>
</tr>
</tbody>
</table>

HVAC Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 3, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>3</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$640,475.00*</td>
</tr>
</tbody>
</table>

*Recommended alternates reflected in these figures.
July 8, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**CENTRAL SERVICE BUILDING RENOVATION (contd)**

**HVAC Contract (contd)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Bid</td>
<td>$ 687,400.00*</td>
</tr>
<tr>
<td>Estimate of Cost</td>
<td>$ 734,550.00*</td>
</tr>
<tr>
<td>Awarded to</td>
<td>Limbach Co., Columbus, OH</td>
</tr>
</tbody>
</table>

**Electric Contract**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>May 3, 1988</td>
</tr>
<tr>
<td>No. of Bids</td>
<td>4</td>
</tr>
<tr>
<td>Low Bid</td>
<td>$ 733,557.00*</td>
</tr>
<tr>
<td>High Bid</td>
<td>$ 820,301.00*</td>
</tr>
<tr>
<td>Estimate of Cost</td>
<td>$ 898,900.00*</td>
</tr>
<tr>
<td>Awarded to</td>
<td>Buckeye Electric Co., Dayton, OH</td>
</tr>
</tbody>
</table>

**Total All Contracts:**

$4,487,781.00*

**Previously Bid and Awarded**

- **Demolition, Asbestos Abatement, Equipment**
  - Cost: $ 654,539.00

**Total All Construction:**

$5,142,320.00*

**Total Contingency Allowance:**

$ 139,068.00 (which is 3% of construction costs)

**Total Project Cost:**

$5,700,000.00*

**Funding:**

H.B. 870, H.B. 810 and University Funds

*Recommended alternates reflected in these figures.

**UNIVERSITY HOSPITALS - RENOVATION AND ADDITION TO CHILLED WATER**

Description: This project provides for upgrading the capacity of the existing chiller and modifying the existing chilled water primary and secondary distribution systems to tie all chillers into a common supply header. Construction is scheduled to begin August 1988 and be completed within one year.
July 8, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

UNIVERSITY HOSPITALS - RENOVATION AND
ADDITION TO CHILLED WATER (contd)

General Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 24, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>4</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$427,000.00*</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$482,585.00*</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$496,400.00*</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>Concept Construction Co., Columbus, OH</td>
</tr>
</tbody>
</table>

Plumbing Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 24, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>2</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$43,899.00</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$46,900.00</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$48,670.00</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>J. A. Croson Co., Columbus, OH</td>
</tr>
</tbody>
</table>

HVAC Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 24, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>6</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$1,174,025.00*</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$1,517,108.00*</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$1,645,060.00*</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>Brumer Corp., Columbus, OH</td>
</tr>
</tbody>
</table>

Electric Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>May 24, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>3</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$312,560.00</td>
</tr>
</tbody>
</table>

*Recommended alternates reflected in these figures.
July 8, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

UNIVERSITY HOSPITALS - RENOVATION AND
ADDITION TO CHILLED WATER (contd)

Electric Contract (contd)

High Bid: $ 435,600.00
Estimate of Cost: $ 415,930.00
Awarded to: Advantage Electric Inc., Toledo, OH

Total All Contracts: $1,957,484.00*
Total Contingency Allowance: $ 293,606.15 (which is 15% of construction costs)

Total Project Cost: $2,513,087.00*
Funding: University Hospitals Funds

*Recommended alternates reflected in these figures.

DOAN HALL ELEVATOR MODERNIZATION

Description: This project provides for the replacement of the controlling system of Elevators 1, 2 and 3 in Doan Hall with collective microprocessors which will modernize and improve the operation of these service elevators. Construction is scheduled to begin June 1988 and be completed by October 1989.

General Contract

Date Received: April 20, 1988
No. of Bids: 5
Low Bid: $ 249,773.00*
High Bid: $ 363,550.00*
Estimate of Cost: $ 275,000.00 (Base only)
Awarded to: Montgomery Elevator Co., Cincinnati, OH

Total All Contracts: $ 249,773.00*
Total Contingency Allowance: $ 19,982.16 (which is 8% of construction costs)

Total Project Cost: $ 281,183.00*
Funding: University Hospitals Funds

*Recommended alternates reflected in these figures.
July 8, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

PRESSEY HALL REMODELING PHASE II (UNIVERSITY PRESS)

Description: This project provides for the remodeling of approximately 4,400 square feet on the first floor to provide space for offices and administrative functions of the University Press. Construction is scheduled to begin June 1988 and be completed September 1988.

General Contract

Date Received: April 28, 1988
No. of Bids: 10
Low Bid: $104,145.00*
High Bid: $126,540.00*
Estimate of Cost: $107,713.00*
Awarded to: Functional Development, Dublin, OH

HVAC Contract

Date Received: April 28, 1988
No. of Bids: 5
Low Bid: $50,800.00*
High Bid: $65,000.00*
Estimate of Cost: $54,120.00*
Awarded to: Lincoln T. Mandeville Plumbing and Marco Plumbing and Heating Co., joint venture, Columbus, OH

Electric Contract

Date Received: April 28, 1988
No. of Bids: 2
Low Bid: $57,993.00*+
High Bid: $84,010.00*
Estimate of Cost: $50,000.00*

*Recommended alternates reflected in these figures.
+Electric Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

PRESSEY HALL REMODELING PHASE II (UNIVERSITY PRESS) (contd)

Electric Contract (contd)

Awarded to: Express Electric Co., Columbus, OH

Total All Contracts: $ 212,938.00*

Total Contingency Allowance: $ 8,002.78 (which is 4% of construction costs)

Total Project Cost: $ 266,430.00*

Funding: University Funds

*Recommended alternates reflected in these figures.

GRAPE RESEARCH FACILITY
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

Description: This project provides for a concrete block structure of approximately 1,200 square feet and site improvements to establish a Grape Research Branch in Ashtabula County near Kingsville, Ohio. The building will house a manager's office, restrooms, and a general purpose workshop area. Construction is scheduled to being August 1988 and be completed by December 1988.

General Contract

Date Received: May 26, 1988

No. of Bids: 2

Low Bid: $ 73,884.00

High Bid: $ 78,229.00

Estimate of Cost: $ 74,420.00

Awarded to: Pete Wing Contracting Co., N. Kingsville, OH

Plumbing and HVAC Contract

Date Received: May 3, 1988

No. of Bids: 1

Low Bid: $ 21,445.00

Estimate of Cost: $ 22,115.00

Awarded to: Have, Inc., Ashtabula, OH
July 8, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

GRAPE RESEARCH FACILITY
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER (contd)

Electric Contract

Date Received: May 3, 1988
No. of Bids: 3
Low Bid: $15,906.00+
High Bid: $16,340.00
Estimate of Cost: $12,465.00
Awarded to: Penn-Ohio Electrical Co., Masury, OH

Total All Contracts: $111,235.00
Total Contingency Allowance: $7,958.17 (which is 7% of construction costs)
Total Project Cost: $155,000.00
Funding: S.B. 348 and University Funds

+Electric Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

PUT-IN-BAY CAMPUS FACILITIES IMPROVEMENTS PHASE I
SEWAGE TREATMENT IMPROVEMENTS

Description: This project provides for the installation of a septic tank system to partially resolve existing unsatisfactory lake pollution conditions. Construction is scheduled to begin July 1988 and be completed by October 1988.

General Contract

Date Received: June 2, 1988
No. of Bids: 4
Low Bid: $79,680.00
High Bid: $92,350.00
Estimate of Cost: $85,000.00
Awarded to: PHC Inc., Holland, OH
July 8, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

PUT-IN-BAY CAMPUS FACILITIES IMPROVEMENTS PHASE I
SEWAGE TREATMENT IMPROVEMENTS (contd)

Total All Contracts: $ 79,680.00
Total Contingency Allowance: $ 6,375.00 (which is 8% of construction costs)
Total Project Cost: $ 89,255.00
Funding: H.B. 870 (U & R)

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

TRANSFER OF JURISDICTION
OHIO DEPARTMENT OF TRANSPORTATION
Resolution No. 89-11

Synopsis: Authorization to grant a transfer of jurisdiction to the Ohio Department of Transportation for replacement of a bridge is requested.

WHEREAS the Ohio Department of Transportation has requested a transfer of jurisdiction for a strip of land consisting of 0.32 acres for the replacement of a bridge over Little Salt Creek on State Route 93 in Jackson County, which land is owned by the University and operated by The Ohio Agricultural Research and Development Center; and

WHEREAS the bridge will serve many residents and travelers in the Jackson County area; and

WHEREAS the Ohio Department of Transportation agrees to compensate the University with a lump sum fee of $1,180 based on the fair market value of the land; and

WHEREAS the appropriate University offices have recommended that this transfer of jurisdiction be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration, be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act on behalf of the University in developing the necessary legal instrument to provide for this transfer of jurisdiction.
July 8, 1988 meeting, Board of Trustees

TRANSFER OF JURISDICTION
OHIO DEPARTMENT OF TRANSPORTATION (contd)

Upon motion of Ambassador Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

LEASE OF SPACE IN THE OHIO UNION TO GREENTREE ENTERPRISES, INC.
Resolution No. 89-12

Synopsis: Authorization to lease 1,568 square feet of space in the Ohio Union for a food service operation is requested.

WHEREAS Greentree Enterprises, Inc., currently occupies space in the Ohio Union in which it operates "Scarilata & Gray" and "The Juice Factory" restaurants; and

WHEREAS Greentree Enterprises' Ohio Union lease expires on June 30, 1988; and

WHEREAS there is currently no need for this space for the academic programs of the University, but there is a need for continuing a food service operation; and

WHEREAS Greentree Enterprises has proven over the last eight years to be a viable tenant for the space in the Ohio Union and would like to continue to operate:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business Administration be authorized, on behalf of the Board, to negotiate, and enter into, a lease of approximately 1,568 square feet in the Ohio Union, with Greentree Enterprises, Inc., for the purpose of continuing a food service operation, at an appropriate market rental rate, and upon such other terms and conditions as are deemed to be in the best interest of the University and to develop and execute the necessary legal instruments for this lease.

Upon motion of Ambassador Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

ACCEPTANCE OF THE GIFT OF REAL PROPERTY
760 BEAUTYVIEW COURT, COLUMBUS, OHIO
Resolution No. 89-13

Synopsis: Acceptance of a gift of real property at 760 Beautyview Court in Columbus, Ohio, is proposed.

45
July 8, 1988 meeting, Board of Trustees

ACCEPTANCE OF THE GIFT OF REAL PROPERTY
760 BEAUTYVIEW COURT, COLUMBUS, OHIO (contd)

WHEREAS the late Dr. Francis B. McCormick was the owner of approximately 0.23 acres of improved real property at 760 Beautyview Court in Columbus, Ohio, and by his Last Will and Testament devised this property, and other real and personal property, to The Ohio State University, through The Ohio State University Development Fund, subject to a life estate for his widow, Marie Orton McCormick; and

WHEREAS Dr. McCormick's Will provides that the net proceeds from the sale of this property are to be used to establish the Francis B. McCormick Professorship in Agricultural Economics or to support the existing McCormick Undergraduate Scholarship in Agricultural Economics; and

WHEREAS Dr. McCormick's widow, Marie Orton McCormick, and the University have negotiated and settled their respective interests in the estate such that the University will receive a one-half interest in the Ohio real property from the estate and will receive the other one-half interest in the property as a gift from Marie McCormick, as well as receiving other personal property, namely the net proceeds from a life insurance policy; and

WHEREAS this settlement of the respective interests in the estate is to the mutual benefit of both parties and the acceptance of this gift and the establishment of this Professorship are in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the property at 760 Beautyview Court in Columbus, Ohio, be accepted as a gift from the estate of Francis B. McCormick and from Marie Orton McCormick to The Ohio State University, through The Ohio State University Development Fund and that the net proceeds from the gifts be used to establish the Francis B. McCormick Professorship in Agricultural Economics or to support the existing Francis B. McCormick Undergraduate Scholarship in Agricultural Economics and that the President and/or Vice President for Business and Administration be authorized to acquire title to this property in the name of the Board of Trustees of The Ohio State University.

Upon motion of Mr. Berry, seconded by Ambassador Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

EASEMENT
OHIO BELL TELEPHONE COMPANY Resolution No. 89-14

Synopsis: Authorization to grant a telephone line easement to Ohio Bell Telephone Company is proposed.

WHEREAS the Ohio Bell Telephone Company has requested an easement consisting of a strip of land 10 feet wide and approximately 6,387 feet in length for the installation of underground fiber optics cable across
the frontage of farm property operated by the Ohio Agricultural Research and Development Center located in Clark County, Ohio; and

WHEREAS the easement will serve both University property and private properties; and

WHEREAS the University will receive a fee of $4,300.00 for this easement; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Ambassador Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

EASEMENT
OHIO BELL TELEPHONE COMPANY
Resolution No. 89-15

Synopsis: Authorization to grant an underground communication system easement to Ohio Bell Telephone Company is proposed.

WHEREAS the Ohio Bell Telephone Company has requested an easement consisting of a strip of land 5 feet wide and approximately 280 feet in length for the installation of an underground communication system across and under property owned by the University and located on Argyll Street near the Fawcett Center for Tomorrow; and

WHEREAS the Ohio Bell Telephone Company will install a communication cable for service to Chemical Abstracts; and

WHEREAS the Ohio Bell Telephone Company will install a communication cable for service to the University at no charge; and

WHEREAS the easement will serve both University property and private properties; and

WHEREAS the University will receive a fee of $500.00 for this easement; and

WHEREAS the appropriate University offices have recommended the approval of this easement:
NOW THEREFORE

BE IT RESOLVED, That the Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Ambassador Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

MODIFICATION OF THE STRS EARLY RETIREMENT INCENTIVE PROGRAM
Resolution No. 89-16

Synopsis: Modification of the STRS Early Retirement Incentive Program is proposed.

WHEREAS in October of 1985 this Board approved Resolution No. 86-39, an Early Retirement Incentive Program for qualified employees who participate in the State Teachers Retirement System (STRS); and

WHEREAS the number of persons eligible for University purchased service credit was limited to five percent (5%) of the total number of the University's current STRS membership; and

WHEREAS the University has now determined that the interest in this program has exceeded the 5% limit:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Personnel Services is hereby authorized and directed to modify the University's STRS Early Retirement Incentive Program to reflect a limit on the number of persons eligible for University purchased service credit of 6.5% of the total number of the University's current STRS membership; and

BE IT FURTHER RESOLVED, That all other aspects of the Early Retirement Incentive Program remain unchanged.

Upon motion of Mr. Kessler, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

MODIFICATION OF THE PERS EARLY RETIREMENT INCENTIVE PROGRAM
Resolution No. 89-17

Synopsis: Modification of the PERS Early Retirement Incentive Program is proposed.
WHEREAS in December of 1986 this Board approved Resolution No. 87-68, an Early Retirement Incentive Program for qualified employees who participate in the Public Employees Retirement System (PERS); and

WHEREAS the number of persons eligible for University purchased service credit was limited to five percent (5%) of the total number of the University's current PERS membership; and

WHEREAS the University has now determined that the interest in this program has exceeded the 5% limit:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Personnel Services is hereby authorized and directed to modify the University's PERS Early Retirement Incentive Program to reflect a limit on the number of persons eligible for University purchased service credit of 6.5% of the total number of the University's current PERS membership; and

BE IT FURTHER RESOLVED, That all other aspects of the Early Retirement Incentive Program remain unchanged.

Upon motion of Mr. Kessler, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

Mr. Immke:

I would like to now call on Dr. Hollander to introduce Dr. Eugene R. Capriotti, Professor in the Department of Astronomy, who will make a presentation, "The Columbus Project -- the World's Largest Telescope."

Dr. Hollander:

Thank you, Mr. Chairman and Members of the Board. Some of the Members of the Board may recall that several years ago I made a report to the Board about a major program which is intended to propel Ohio State University into the front ranks of science in the field of astronomy. The centerpiece of this effort is the construction of a very large optical telescope, perhaps the world's largest optical telescope. We are doing that in a consortia effort, together with several other major research universities and laboratories in this field. The project, as you may know, has been called the "Columbus Project," in honor of the leading role played by The Ohio State University in Columbus, and also that the time schedule involved has a major milestone on the project to be in the year 1992, which is the year of celebration of the voyage of Columbus.

There has been much progress in this program. I think it is fair to say that today Ohio State University is involved in every major astronomy activity in this country, every policy body, along with the other leading universities in this field.
Of course, excellence that we strive for is brought about by people and it is clear that the reason that we go into major projects of this kind is to be able to attract the very best faculty and very best students to the University. That has already happened even though we aren't even half-way into the project yet. I think we can even report that some very fine additions to the faculty in the field of astronomy have been made, people who are leading scholars in this field in the country and the world.

Now, at the University two of the main spark plugs of this effort have been Professor Eugene Capriotti and Professor William Protheroe, both of whom are here today with us. Professor Capriotti is also the Chair of the Department of Astronomy and I am very pleased that Gene Capriotti will give us an update on the progress of the Columbus Project. Gene —

Dr. Eugene R. Capriotti:

Thanks very much. I want to tell you that we have added some fine faculty to the Department in the last couple of years as a result of our entering into the Columbus Project. I can't boast about myself in that context since I've been here 24 years. So I am not one of the new positions. I have been told that I have about twenty-five minutes to talk which is difficult because after being here for 24 years, I am more or less ingrained with this "48 minutes" idea, so I have practiced at great length. What I wanted to do besides talk to you about where we are with the project, more or less, is give you the background for our entry into this project. If somebody is operating the slide projector (Slide presentation) —

I want to show you a picture of where it all began. That is a photograph of Galileo's first telescope. It is a telescope that has a 1" diameter primary optic -- a lens, in fact, and it was built in 1609. Even though it is very, very small, it featured a 16-25 times increase in light gathering power over the human eye. With this telescope Galileo made not only the discoveries of the Moons of Jupiter and other objects that convinced people -- some people, not everybody -- that the earth in fact moved about the sun. What he did was turn this telescope towards the Milky Way. The smaller one, the one on the left, is the very first one. And with the small telescope he saw that the Milky Way was not a smear of clouds in the sky, but consisted of a myriad of individual stars opening up the human imagination to the idea that there are many, many more objects in the universe than the human mind could possibly imagine.

Just for the record this is the way a telescope like this works -- to the right is the primary optic, it is a lens that bends the light as a result of the curvature. This of course is the lens in the eye piece that straightens the light out and makes it parallel for entering into the eye. This represented one technology in telescopes, what we call refracting telescopes because the focusing of the light results from the phenomenon
called refraction when light passes from the medium of one density into the medium of another.

That wasn't the only technology that was developed. This is the second technology that was developed, in fact, by people like Isaac Newton about 100-150 years after Galileo. Here the light is coming from the left and it strikes the surface of a mirror rather than passing through a lens. It gets reflected and either comes to a focus or another mirror reflects the light where it can pass through a hole in the primary mirror and be again made parallel for examination by the eye or photographic plates or other kinds of instruments. Newton, himself, placed a 45° mirror in his telescope at this location and threw the light out to the side. The telescope that he built is this particular telescope. This is not unlike the common reflecting telescopes that you buy off the shelf in camera shops and optical stores. Notice, the fundamental difference between this telescope and the refracting telescope, that is because you can get a higher curvature with a mirror and still not alter the light significantly than you can with a lens. That is, the ratio of the cross-section of the telescope to its length is increased. That means a shorter telescope for a given light gathering power.

The epitome of refracting telescopes is this telescope. It was built in 1896 by the University of Chicago at the Yerkes Observatory on Williams Bay, Wisconsin. The cross-section, the diameter of the 40" aperture, as we say, the 40" lens, the primary lens is up at this end of the telescope. A very long telescope for this cross-section needing a huge dome. This is the Yerkes Observatory and that is the dome containing the 40" telescope. Considerably larger than we are used to seeing.

The epitome of reflecting telescopes is this telescope -- it is the Palomar 200" telescope. It is the one that most people if you asked them if they have ever heard of a telescope, they will say "yes there is one on Mount Palomar." And this shows, again, the considerable difference between the cross-section and the length for a huge telescope. So you get some idea of the size of the telescope. That is the dome of the 200" telescope on Palomar Mountain. And again you can see that compared to the size of the telescope the dome is quite small. Very significant when it comes to cost. Also, technically to make a refracting telescope of this size is really not technologically feasible because the lenses would have to be so thick that the transmission through them would be very poor.

This telescope was built in 1949 -- saw its first light, as they say, in 1949. Since then -- with the exception of a telescope built by the Soviet Union in the 1970's that has a 235" aperture as opposed to this 200" aperture -- there has never been another large telescope built. And the question is why? When technology has advanced in most every other sector, why do we go forty years without a major advance in telescopes. In fact, the telescope built by the Soviets did not work very well at all.
Some people say "it just plain doesn't work." And the reason for it is that the piece of glass in the primary mirror is so heavy that it causes thermal inertia (that is a technical term meaning it can't cool and heat rapidly enough to come into equilibrium with itself or the surroundings). So you have temperature differences within the glass that causes distortion of the mirror, distortion of images, and also the temperature imbalance between the glass and air right over the glass causes convection currents that distort the images again. So this essentially was the last piece of glass that worked. Even if you were to take this technology and extend it and try and build the kinds of things that we are talking about now -- we are talking about telescopes with 400" apertures, etc.

This is a 5-meter aperture telescope, and what we are talking about in the Columbus Project is an 11.3-meter. If you square it, you find that you have over 4 times the light gathering power. It represents an increase in factor of 4 in the sensitivity that one can measure. Let's suppose that we were to take a 200" and scale it up -- what you would have when you were finished is a total moving mass. This is something that you would have to point with the precision of 1/3600 of a degree or better to a point in space. You would have to move 6,000 tons of steel and glass in order to use efficiently a telescope of this size. The estimated cost for such an instrument is half a billion dollars, well over $400 million. That is not really feasible, I don't think there is anybody that would want to get into a project right now for astronomy for 1/4 of half a billion dollars -- it is very hard to convince people to do that. You divide that by a factor of 10 and then you are getting to the point where you can realize this sort of situation.

How do you do it though? Well, we already found that with shorter tubes, smaller domes, etc., you can cut costs. How about this moving mass then? Well, let's use light weight mirrors. Here is where technology comes into the picture. Until the last few years we just simply didn't have the technology that allowed us to consider the various types of thermal mirrors that enabled the kind of curvature necessary to make the short tubes that could make the small domes and cut the costs.

Here are the three technologies that have been developed: the first one is the so-called rubber mirrors, thin rubber mirrors. They are not rubber they are glass, but they are so thin that, in fact, they can't be held rigidly in the traditional way. What you have to do is provide computer controlled support in many, many points under the mirror. And actually in real time as the telescope moves to and fro getting different gravitational forces from the earth, the computers come into play to keep the mirror supported so that it is true. It has a true figure. That is one way. There is a telescope project that will use this technology. This is the one at the European Southern Observatory which features four independent 8-meter telescopes in a tandem scheduled for completion sometime early in the next century.
Dr. Capriotti: (contd)

The second technology is the so-called segmented mirror. Right now CalTech and the University of California are actively engaged in building a 10-meter telescope that consists of 36 1.8-meter diameter segments in hexagonal shapes. And when you look at these hexagonal mirrors in projection you see the smooth surface of what looks like a single mirror. Again, each one of those segments has to be actively controlled by computer in order to make it work.

The third technique features a different type of rigid mirror than the Palomar. Rather than having a very thick piece of glass with small pieces cut out, what you have, in fact, is something like this thin mirror but with a continuous glass system of hexagonal supports, through which air can flow and keep the mirror cool so you don’t run into the same problem that the Soviets have. And at the same time, you don’t have to move 6,000 tons or more of glass. So this is the particular technology that we’re involved in with the University of Arizona, which has developed a technique to spin mirrors of this sort in ovens. The rotation of the oven as the glass melts has the glass flow into just the right shape.

If you were to do this in the traditional way, what you want is a small focal ratio. When we talk about focal ratio, all that means is the degree of curvature. Focal ratio — the smaller the number the higher degree of curvature. If you were to cast, for example, an 8-meter mirror, which the oven at the University of Arizona is capable of casting, in a traditional way you would get a cylindrical section. Then you would have to remove through grinding processes up to 15 tons of glass. The cost of the removal for that glass equals what it costs to build a spinning furnace. So, in fact, the spinning furnace pays for itself with the first mirror it casts. So what you do then is you use that spinning furnace to cast these mirrors. Since you aren’t casting as much glass, you have a much shorter annealing time, six weeks is the estimated time.

Now I would like to say a few words about where we are in this horse race. Because it is a horse race and it will become more and more obvious as time progresses. These are the institutions presently planning telescopes with over 10-meter effective aperture. I still call the European venture something different than this since each of these telescopes more or less has everything on the same mount — whether it be segmented or a twin 8-meter mirror telescope as we are planning in the Columbus Project.

What we have at the University of California and the California Institute of Technology, CalTech, is a consortium to build a 10-meter segmented mirror — the Keck telescope. It is named for Keck because he contributed $70 million for its construction. The telescope will be built on Hawaii, on 14,000 foot Mauna Kea. The other group: the University of Arizona, the University of Chicago, The Ohio State University, and Italy. What we are involved in is the 11.3-meter telescope, it’s a twin 8-meter mirror — I will show you a photograph of it — which
July 8, 1988 meeting, Board of Trustees

Dr. Capriotti: (contd)

will be built in Arizona on 10,000 foot Mount Graham.

This is the history of the institutions planning large telescopes. In red are those that are still alive in the project. Starting out in 1610 we have Italy with a 1" telescope. We move to the era between 1880 and 1900, Lowell Observatory in Flagstaff, Arizona, built the 24" refracting telescope. The University of California, Lick Observatory on Mount Hamilton -- as a matter of fact, this was the first one that was built, it was the first mountain-top telescope. This was built before the other two here as a matter of fact. The 36" refractor by the University of California. Then the 40" refractor that I showed you a picture of, Yerkes Observatory was built in 1896. Then in 1900 and 1920, the scene shifted to California almost permanently, as far as large glass of any significance goes, when Mount Wilson Observatory built two reflecting telescopes in the San Gabriel range -- a 60" and 100". The era of refractors was practically over.

In 1929, with a gift from Hiram Perkins, Ohio Wesleyan built a 69" telescope. When it was built it was the third largest telescope in the entire world. The telescope was the biggest telescope east of the Rocky Mountains. In 1935, Ohio State University assumed operation of the Perkins 69" telescope when Ohio Wesleyan ran into financial problems during the Depression. In 1949, CalTech and Mount Wilson collaborated with the construction of the 200", the Palomar telescope that I was telling you about. From 1960 to 1970, the National Optical Astronomical Observatory built an 84" and the University of Arizona a 90". Ohio State and Ohio Wesleyan moved the 69" telescope to Flag Staff, Arizona, where the 69" was upgraded to a 72" telescope. This began our link with Arizona astronomy. California in the same era built the 120" telescope. This was one of the test blanks that was built for the 200" telescope.

And finally, from 1970 to 1980, the National Optical Observatory built the 150" and Arizona and Harvard-Smithsonian built the 176". I will show you a picture of that because it is significant. This is the 176" telescope built by the University of Arizona and Harvard-Smithsonian. It doesn't consist of a single mirror, but rather 6 individual 1.8-meter mirrors tied together on a single mount. This is the start of understanding how thin mirrors could be put together, held rigidly, and kept in temperature equilibrium with its surroundings. So this was a hallmark telescope in the new era, because it was after that that the astronomical community became very serious about building large telescopes. What you have then was between 1980 and 1983, this telescope was completed in the 1970's, was more or less an all out effort to try to get the groups together that would build the large glass, so to speak.

From 1980 - 1983, the National Observatory planned a 15-meter telescope that was to consist of 4 8-meter mirrors, 7 1/2-meter mirrors actually cast by the Arizona group. Arizona and CalTech got together independently to build an 8-meter telescope. These were all to use Arizona mirror technology, financed by NSF
through the National Observatory. In 1984, California and CalTech got together when CalTech heard that California was inheriting $35 million of Hoffman money to build a telescope. They dropped Arizona and went with California. The technology was to be developed at Berkeley. When CalTech found out that this telescope was to be dominated by California, Keck donated $70 million and the Hoffman Telescope now became the Keck Telescope. In the meantime, Arizona had a void, there was nobody on the horizon who would pair up with them to build an 8-meter telescope. We entered the picture at that juncture, that was 1985, to collaborate with Arizona to build an 8-meter telescope.

By 1986, Italy and Chicago had agreed to a plan to upgrade the 8-meter telescope to an 11.3-meter telescope which resulted in the Columbus Project. The Columbus Project has been described. The people who started it all in 1987 scrubbed their plans for a 15-meter telescope. And Jack Hollander can corroborate that incredibly poor leadership at the National Observatory led to this, what I think is a very wrong move. But it is better for us as independent people.

All right, just what kind of telescope are we going to have then? This is what it is going to look like. What you have is a single mount with 2 twin 8-meter telescopes designed to point in the same direction. The Italians have done all the stress analysis, vibrational analysis, on the mount. What Ohio State is doing is the secondary mirror alignment, which is a non-trivial part of the project because the secondary mirrors have to be held so that they, in fact, bring images together to within 1/3600 of a degree. The Arizona people, of course, are developing the mirrors through the oven technology.

I have two more pictures of it. That shows it from the side. I want to show you this picture because it shows very clearly just what we mean by a short telescope. This telescope -- compare that to the epitome of refracting telescopes, the Yerkes 40". In fact, the dome size, the enclosure size, for this telescope will not be significantly bigger than the Yerkes 40" telescope. You are talking about a telescope over 10 times the effective aperture. This again is another picture, a little close up showing the model in a little bit more detail.

Now what I want to do is take the last part of this tape and show you a couple of videos. Where are we right now with the telescope? The Italians have a very good design, they are responsible for the building of the telescope. The mirror technology was to be done in steps. The first casting with the oven is a 3 1/2-meter diameter mirror. This is the lifting of the oven showing the spinning oven. You can see very clearly the hexagonal molds, the shape of the hexagonal molds underneath, the honeycomb structure of the oven. This mirror is about 12' in diameter and it was cast on April 26 over about a 24-hour period; this was about 24 hours after the oven was turned on.
July 8, 1988 meeting, Board of Trustees

Mrs. Bowser:

They did this in Arizona?

Dr. Capriotti:

Yes. This was built under the stadium. They took a page out of the Manhattan Project, where they built the Atom bomb under Stag Field. What they did was build a laboratory underneath the Wildcat Stadium and this oven is capable of spin casting mirrors up to 8-meters in diameter. This is the first of two 3.5-meter diameter mirrors that are to be cast, followed by a 6 1/2-meter mirror which will be put into that tube that holds the six 1.8-meter mirrors, the multi-mirror telescope that I showed you. At any rate, this was rather a monumental event. The mirror has been removed from the oven and put upright and it is almost without a flaw. The most perfect mirror that they have ever cast of all the experiments they have done at Arizona. It was very much appreciated by the crowd that was there.

Well, that completes my presentation. What we have is a situation now where we have the next step to go and that is: to up-grade the oven to build the big mirrors; the construction of the telescope; the dome, itself, is yet to come; and also the telescope mount construction that is the responsibility of the Italians. I would be glad to answer any questions or if there are comments that you might have.

Mrs. Bowser:

What is the time frame?

Dr. Capriotti:

The time frame for the construction of the telescope with the insertion of a single 8-meter mirror is 1992. The hope is that within the next year and a half to have the second mirror installed so that the telescope will have both components by 1994. To say when the telescope will be actually completed is really something that no astronomer likes to talk about, because sometimes it takes 10 years before you get all the parts worked out. When we talk about seeing first light, that is the first time a beam comes through the telescope, we are shooting for 1992.

Ambassador Wolf:

When you talk about an 11.3 or 4-meter telescope it is perceived by you to be two 8's -- is that because the area of two 8's is the same around the --

Dr. Capriotti:

That is absolutely correct. The area of two 8's is equivalent to the area of one 11.2.

President Jennings:

Gene, could you elaborate a little bit on why this is important
President Jennings: (contd)

given the space technology and the telescope being put into space?

Dr. Capriotti:

I could elaborate on that subject with two responses. First of all what we are going to put into space, at a cost of $1 - $2 billion, is a 90" telescope. That is a telescope with a 90" aperture. So even though you are outside the atmosphere and you can see the complete spectral range -- because the atmosphere does block certain parts of the spectral range -- you can't put anything nearly the size (of the Columbus Project Telescope) that has its kind of light gathering power.

Secondly, there are new techniques being developed and the military is doing it with SDI. What it can do is take optical systems and actually, in real time, adjust them so that you can remove the distortion of the atmosphere and technologically place the telescope in space. That is technology that is at the cutting edge. As a matter of fact, at the University of Illinois a couple of scientists developed a technique where they could take a laser and 60 miles above the atmosphere excite sodium and cause it to radiate sufficiently stronger so that you can see it with about the same brightness as a faint star. So you can make a star. This is very much a part of this whole technology whereby you make a star-like image that you know is a point of light and you are monitoring that laser so that you can tell with the return beam what sort of distortion the atmosphere is causing. And then you use your computer to activate optics to correct it. That is "Buck Rogers" stuff. It is the next step.

President Jennings:

I think it is also important to elaborate on your earlier point that even if you are able to make a piece of glass this size without the new technology, you are talking a half a billion dollar cost. This project has a cost of around $50 million. So you reduce the big costs by literally ten times -- still a very large project, but it is reachable in the contexts of some sort of reasonable costs. There is also a lot of astrophysics going on now. Gene, you can also elaborate on one more thing -- another contribution that Ohio State is making is that by and large one will operate this telescope from Columbus, Ohio. We won't have a large number of astronomers out there, but with electronic communications you will operate this from here in Columbus. Ohio State is developing this technology to operate by remote.

Dr. Capriotti:

This is what we plan for the future as a matter of fact to tie in with Mount Graham in Arizona, either with fiber optic ground communications or satellite microwave communications. Jack Hollander and I were at a meeting at the National Science Foundation called by Eric Block, the head of the National
Dr. Capriotti: (contd)

Science Foundation. The President of CalTech announced that they will not be operating the telescope in Hawaii by sending astronomers to the mountain-top, but there will be remote observing -- not the whole way back to California, but to a base camp at the foot of Mauna Kea. When Eric Block asked the President from CalTech, "Well, why don't you just keep going the whole way," he said, "Well, in time -- it is a question of money." And my feeling is -- this is one of the feelings that I've felt from day one -- that one of the most important parts of this project is by entering into one of the large telescope projects -- what is going to happen is that there will be networks like this amongst all of these installations. And then, not only will Ohio State astronomers have access to our own telescopes, but by virtue of relays and switches, pertinent scientific projects will be tied into a network that, in fact, involves the outstanding astronomy programs in the country and the world for that matter. So that is something, again, that is down the road. It is the kind of thing that we have to look at now if it is going to be a reality 10 to 20 years from now.

One last thing here -- let me show you a picture to give you some idea of what we are going to try to do. This is not a very good picture -- all those white things are bright stars and those purple things are galaxies. They are near what we call the confusion limit. With present telescopes that is what we see, as far as we can go. We can just make out that they are galaxies as opposed to just being sky background. With the 11.3-meter telescope we are talking about seeing those little purple smudges like that or whatever they happen to look like, because we are not sure, we can't tell.

President Jennings:

How many light-years away, Gene?

Dr. Capriotti:

We are talking out around 10 billion light-years.

President Jennings:

Thank you, Gene. The question is where is Mount Graham? Mount Graham is about 150 miles east of Tucson, Arizona.

--0--

President Jennings:

Mr. Chairman, I would like to do one other thing and that is we have a small event happening in a few weeks. Dave Thompson, who you know has been watching out for us for many years, through good times and bad, retires August 31. I, and I know the whole Board, want to congratulate you and thank you for all you have done for this Board. It has been mostly good, but there have been a few rough spots once in a while. We greatly appreciate your help and wish you good luck in retirement.
July 8, 1988 meeting, Board of Trustees

Mr. David D. Thompson:

Thank you, very much. It has been a great pleasure.

--0--

REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO
Resolution No. 89-18

RESOLVED, That the report on the University's Investment Portfolio, dated June 17, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

--0--

Thereupon the Board adjourned to meet Thursday, September 1, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott       Leonard J. Immke
Secretary              Chairman
APPENDIX I

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

September 1, 1988
Page 62 is blank
Commencement Speaker

Frank W. Hale, Jr.

Frank W. Hale, Jr. is special assistant to the president, vice provost for Minority Affairs, and professor of communication at The Ohio State University.

He is a graduate of the University of Nebraska, where he received both the A.B. and M.A. degrees in communication, political science, and English in 1950 and 1951 respectively. Hale earned a Ph.D. in communication and political science from Ohio State in 1955. He did postgraduate work in England and in 1960 was awarded an honorary Doctor of Humanities degree from Wilberforce University.

Hale was president of Oakwood College in Huntsville, Alabama before coming to Ohio State. From 1971-78, he was associate dean and chairperson of the Fellowship Committee of the Ohio State Graduate School, where he initiated the Graduate and Professional Schools Visitation Days Program. This program has awarded fellowships to over 1,200 minority students and led over 80 percent of them to earn advanced degrees. Hale also founded the Minority Scholars Program in 1982.

Hale has written four books: A Manual of Public Speaking, Sunlight and Shadows, The Cry for Freedom, and They Came and They Conquered. He has also written nearly 50 professional articles.

Hale has served as vice provost since 1978 and has sponsored a variety of development and support programs for minority students and staff including Martin Luther King Week activities, art exhibits, staff development seminars, and student financial support projects. His office has assisted approximately 4,000 minority students through its Freshman Foundation Program. During Hale's tenure, two government-funded programs have been established in Minority Affairs: Upward Bound and the Research Apprenticeship Program.

Frank Hale has a strong commitment to the education of minority students and has turned his beliefs into actions. He has been instrumental in programs at Ohio State to give minority students the opportunities to achieve their goals. Ohio State is proud to have such a distinguished educator as speaker for this 305th Commencement.
Recipients of Honors

Richard M. Morrow
Doctor of Engineering

Richard Morrow, an Ohio State alumnus, has made extraordinary contributions to improve the United States and world energy supply while making Amoco Corporation one of the leading energy companies in the world. Over a span of 30 years, he has been instrumental in bringing into production off-shore oil and gas fields found under the most severe environmental conditions—from the ice flows of Alaska to the heat and sands of the Persian Gulf. The success of these projects will influence oil production for years to come. Morrow has played a key role in making Amoco an international petroleum company with an outstanding record in off-shore and international oil and gas production.

His technical versatility and outstanding management skills were recognized by his promotion to executive vice president of Amoco Chemical Corporation. In 1978, he was named president of the parent company, Amoco Corporation, and five years later was named chairman of the board and chief executive officer.

For his technical and managerial expertise in oil field production and reservoir engineering and his managerial leadership in the chemical and energy industries, Morrow was elected to the National Academy of Engineering, one of the highest honors conferred upon an engineer.

Beyond his notable achievements as an engineer and corporate leader, Morrow has devoted considerable time and talent to public service, as shown by his active involvement as a trustee of the University of Chicago and Rush-Presbyterian-St. Luke’s Medical Center, as well as the United Way of Chicago and the United Way of America. Morrow is more than just a nominal member of several service agencies—he personally gets involved and sets an example for others.

Richard M. Morrow is a person who has broad interests, a compassion for people, and a sense of commitment to human progress which brings distinction to himself and his alma mater. It is with great pride that Ohio State confers upon him this honorary degree.

Raymond S. Bugno
Distinguished Service Award

Raymond Bugno has devoted his entire career to The Ohio State University. Within a span of over 40 years, he has served under five University presidents and four executive directors of the Research Foundation. For nearly 20 years (the last four serving as deputy director of the Office of Sponsored Programs Administration), Bugno has been responsible for the Administration and Services Division. His responsibilities include the management of administrative staff who ensure that research projects are accomplished within the sponsors and the University’s policies, as well as maintaining good working relationships with faculty researchers.

One of Bugno’s former supervisors describes him as “a rare individual with a complete mastery of bureaucratic details”—details that kept getting more complex as years went by. He has been an exceptional source of information on all aspects of extramural funding and has always been willing to gather additional information about procedures and federal policy. His mastery of details, though, was always in the service of procuring, not obstructing research. Bugno’s sincere concern was for faculty members and students affected by the Research Foundation’s operations.

Bugno has been both a continuing student and teacher in the complex and rapidly changing world of the Research Foundation. He has served his profession at the national level by his memberships in the National Contract Management Association, the Committee on Governmental Relations, and the Society of Research Administrators while sustaining Ohio State’s reputation as a leader in research.

Ray Bugno’s loyalty, integrity, and dedication to Ohio State have made an exceptional model for others to follow. Ohio State is proud to present him with the Distinguished Service Award as an expression of the University’s sincere appreciation.
Recipients of Honors

Eugene C. D’Angelo, Jr.
Distinguished Service Award

Gene D’Angelo began his broadcasting career with the Taft Broadcasting Company as a member of the local sales team for WTVN-AM. After only five years at the station, D’Angelo had earned the title of general manager. In the five years that followed, his positions at Taft included vice president of Taft Broadcasting Company, vice president of the Buffalo division, and general manager of WGR-TV in Buffalo.

By 1972, D’Angelo had joined the WBNS stations as executive vice president of broadcast operations, chief operating officer, and general manager for television and radio. The owners of the WBNS stations named him president of broadcast operations in 1978. Under D’Angelo’s leadership, WBNS-TV continues to lead in state-of-the-art broadcasting.

D’Angelo is a community leader who has represented Columbus internationally. In 1985, he was appointed by President Reagan to the Christopher Columbus Quincentenary Jubilee Commission. He has been instrumental in “sister city” agreements between Columbus and Genoa; the state of Ohio and the region of Liguria, Italy; and The Ohio State University and the University of Genoa and has recently been honored with the Italian government’s top civilian award.

D’Angelo serves as a master representative of the arts in central Ohio. He is a former music major and marching band member at Ohio State and was most active in the early stages of the TBDBITL Alumni Association, serving on its first board of directors. He continues to assist the marching band, as well as serving on the Advisory Committee of the School of Music and School of Journalism. Currently, D’Angelo is chairman of the board of the Columbus Association for the Performing Arts (CAPA).

The local 1992 Christopher Columbus Commission, EXPO 92, and AmeriFlora ’92 are underway thanks to his encouragement, fostering, and urging.

Ohio State is grateful for his tireless efforts and many years of dedication to the University and is proud to present him the Distinguished Service Award.

Robert L. Evans
Distinguished Service Award

When a friend offered Bob Evans an opportunity to enter the restaurant business in 1944, Evans took it. Although soon afterward Evans was drafted into the Army, and as soon as he returned from the service in 1946, he continued to operate this restaurant, which seated 12.

Evans was dissatisfied with the choice of sausage available, so he kept experimenting with spices in his own homemade sausage until he liked it himself. A lot of other people liked it, too. By 1964, Evans had opened three sausage-making plants and the demand for his sausage continued to grow. Today, Bob Evans’ Farms, Inc., is considered the leader in the sausage industry throughout Ohio, and in most of Michigan, northern Indiana, and the Chicago area, and his restaurants continue to expand.

The success of Bob Evans goes far beyond that of agriculturalist and restaurant owner. He has generously given of his time, talents, and financial support to 4-H and the College of Agriculture at Ohio State. Evans promotes 4-H conservation and natural resources education by sponsoring conservation education books to 4-H members and leaders. He is noted in Cooperative Extension Service for his quote, "The only thing better than sausage is 4-H."

Evans is a strong supporter of youth and education. He sponsors a scholarship each year to a deserving 4-H member entering Ohio State to study natural resources. He is also a supporter of the Food Industry Center at Ohio State, the College of Agriculture, OARDC, the Ohio Cooperative Extension Service, as well as serving on the Ohio Board of Regents. He has promoted educational research in swine production, beef production, and horse production and management. The volunteer time Evans has spent with young people and the influence he has had on their future is truly immeasurable.

In recognition of Bob Evans’ commitment to The Ohio State University and to the education of students, the University is proud to present him with the Distinguished Service Award.
Recipients of Honors

Robert W. Wagner
Distinguished Service Award

A dedicated artist-teacher-scholar, Robert W. Wagner is internationally known as an authority in the field of cinematography and has served Ohio State for over 38 years.

Wagner came to Ohio State in 1946 as a professor of photography. In 1958-59, he left to become head of the Department of Cinema at the University of Southern California. By 1960, Wagner returned to Ohio State to become director of the Motion Picture Division, Department of Photography, then chairperson of the department, and later director of graduate studies. From 1976-84, he held simultaneous professorships in the Department of Photography and Cinema, the Department of Communication, and the Division of Educational Foundations and Research. Since his retirement in 1984, he continues to contribute to Ohio State as a professor emeritus.

Wagner is one of the most distinguished individuals in the field of cinema, illustrated by his being a major American resource person for other nations' film makers and scholars. He has written several books and edited others, including articles for the Encyclopaedia Britannica and the International Encyclopaedia of Education. He has written numerous articles on the uses, techniques, and history of cinema and television and has written and produced a number of film, radio, and TV works. As an internationally recognized scholar, Wagner is universally acclaimed as a leader of the professional organizations in his field. He has brought great honor and distinction to the Department of Photography and Cinema and the reputation of The Ohio State University. During his tenure at Ohio State, Professor Wagner has won many awards and honors. He continues to serve Ohio State by appearances as a lecturer, as well as advising students and serving on graduate dissertation committees. Wagner also remains active in the American Film Institute and the University Film and Video Association. Ohio State welcomes the opportunity to honor him for his distinguished and productive career.

Eva Donelson Wilson
Distinguished Service Award

Eva Wilson is one of the faculty members whose contributions to Ohio State have brought considerable acclaim to the University.

As a well-known nutritionist, Wilson taught at Ohio State from 1946-48 and from 1960-72. After serving five years as associate chairperson for the Department of Home Economics at the OARDC, she accepted an invitation to join the College of Agriculture and Home Economics team (USAID) on the campus of the Escola Superior de Agricultura at the University of Sao Paulo in Piracicaba, Brazil.

For more than 10 years, Wilson lived and worked in Brazil assisting the USAID program to establish and strengthen a department of home economics program at the University in Sao Paulo. Prior to Wilson’s arrival in Piracicaba, no academically based home economics programs existed in Brazil. She recruited several Brazilian women to complete graduate degrees in selected areas of home economics at Ohio State. Some of these women now have leadership roles at other universities in Brazil. All of the courses, curricula, and administrative framework for the program in home economics were developed and put in place under the supervision and dedicated persuasiveness of Eva Wilson. At present, she is regarded as chief among the individuals who have had a major impact on the content and direction of the progress of home economics education throughout Brazil.

Wilson has been an inspiration to students and faculty members. Her patience, persistence, and dedication have had a major influence on home economics across the globe, as well as at Ohio State. The University is pleased to present her with the Distinguished Service Award in recognition of her many years of unselfish devotion to Ohio State and the advancement of the international scope in the field of home economics.
The Graduate School

Dean: Roy A. Koenigsknecht

Doctor of Musical Arts

So-Ham Kim Chung, Seoul, South Korea; B.A.; Seoul National University; M.Mus.; Music
Dr. Jerry E. Louder, Dr. Sylvia Zaremba

Neal Wesley Yocom, Wapakoneta, B.M.E. (Baldwin-Wallace College); M.A. (C.W. Post College); Music
Dr. Thomas Wells

Doctor of Philosophy

Levent Acar, Turkey; B.S.E.E. (Bogazici University); M.S.; Electrical Engineering
Dr. Umit Ozgener

Agumuddin, Padang, Indonesia; B.A. (FPTK-IKIP Padang); M.Ed. (Sam Houston State University); Drs. Pendidikan (FPTK-IKIP Padang); Vocational Education, Comprehensive Program
Dr. James Knight

Nashaat El-Khameesy Al-Ghitany, El Mansoura, Egypt; B.S. (Military Technical College); M.S. (Cairo University); Electrical Engineering
Dr. Jokai M. Jagadoseh

Dee Thad Allsop, Annandale, VA; B.A. (Bingham Young University); M.A.; Political Science
Dr. John Kessel

Michael James Almeida, Somerset, MA; B.A. (Bridgewater State College); Philosophy
Dr. Charles Kielkopf

David James Anderson, Columbia, MO; A.B. A.M. (University of Missouri at Columbia); Theatre
Dr. George Crepsau

Gary Lee Anderson, Lake Mills, IA; B.A. (University of Iowa); M.A. (Columbia University Teacher's College); Education
Dr. Robert B. Dommeroy

Martin Lee Appleton, Portsmouth, B.S.; Biochemistry
Dr. Eduard Behrman

Angel Rene Areelay, Mayaguez, PR; B.S., M.S. (The University of Puerto Rico); Biochemistry
Dr. Robert T. Ross

Moustafa Ahmed Baraka, Cairo, Egypt; B.S., M.S. (Cairo University); M.S.; Geodetic Science and Surveying
Dr. Dean C. Merchant

Ernest J. Barany, Mishawaka, IN; B.S. (Indiana University); Physics
Dr. Kenneth D. Lane

Ahiileas Bardos, Argos, Greece; B.S. (Wright State University); M.A. (Ball State University); Education
Dr. Ayres D'Costa

Sina Barkeshli, Tehran, Iran; B.S.E.E., M.S. (University of Kansas); Electrical Engineering
Dr. Prabha Kar H. Pathak

John Stanley Bay, Burlington, NJ; B.S.E.E. (Virginia Polytechnic Institute and State University); M.S.; Electrical Engineering
Dr. Hoshang Hemami

Susan M. Bennett, Orem, UT; B.A. (Goucher College); M.A. (Miami University); A.A.; Slavic and East European Language and Literatures
Dr. Frank R. Silbajors

Deborah Ann Hopkins Boone, Greensvich, B.S.H.E.; M.S.; Agricultural Education
Dr. R. Kirby Barrick

Harry Nelson Boone, Jr., Frankford, WV; B.S., M.S. (West Virginia University); Agricultural Education
Dr. L. H. Newscomb

Cathy Faulcon Bowen, Roanoke, Rapid, NC; B.S. (North Carolina Agricultural and Technical State University); M.S.; Home Economics
Dr. Joan Gritzmaner

Mark Henry Brand, Storm, CT, B.S. (Cornell University); M.S.; Horticulture
Dr. Robert D. Lineberger

Robert Louis Bregman, Reynoldsburg, B.S. (LaFayette College); M.B.A., M.A.; Business Administration
Dr. Larry Ratzman

James Williard Brown, Columbus, B.A. (Ball State University); M.S. (Miami University); Molecular, Cellular, and Developmental Biology
Dr. John Reeve

Christine Annette Cheadle Browning, Channel Winchester, B.S.Ed.; M.A.; Education
Dr. Alan Osborne

Michael Lynn Burgess, Columbus, B.A. (School of Psychology)
Dr. E. Keith Blankenbaker

Gordon Albert Bush, Houston, TX, B.A. (Michigan State University); M.A. (Loyola College); Psychology
Dr. Steven J. Beck, Dr. Beverly Thorn

Angela Mary Campbell, Glasgow, Scotland; D.C.E. (Notre Dame College of Education); M.A.; Communication
Dr. Victor D. Wall

Jamie M. Canno, Menilla, NM; B.S., M.A. (New Mexico State University); Agricultural Education
Dr. L. H. Neubau

James Dave Cauley, Columbus, B.S.Ed., M.A.; Education
Dr. Robert Bargar

Sung-Sook Chang, Seoul, South Korea; B.A. (Song Shin College for Women); M.A. (Korea University); Psychology
Dr. Don M. Dell

Yunchan Chi, Tainan, Taiwan, R.O.C.; B.S. (National Cheng Kung University); M.S.; Statistics
Dr. Sue Leungans

Jung Il Cho, Seoul, South Korea; B.S., M.Sc. (Seoul National University); Education
Dr. Robert W. House

Jean Sook Chung, Seoul, South Korea; B.S., M.Sc. (Seoul National University); Physics
Dr. David Stroud

Jeanne Marie Colleran, Pittsburgh, PA; A.B. (John Carroll University); M.A. (Case Western Reserve University); English
Dr. Edward P.J. Corbett

Ruth Redlich Connor, Athens, B.S. (University of Cincinnati); Medical Microbiology and Immunology
Dr. Raymond W. Lang

Samuel Scott Courts, Milton, WV; B.S. (Marshall University); M.S.; Physics
Dr. James T. Tough

Linda Susan Crawshaw, Kutztown, PA; B.S. (Lock Haven University); M.S. (University of Arizona); Health, Physical Education and Recreation
Dr. Charles L. Mand

K. E. Danko-McGhee, Buckhannon, WV; B.A. (West Virginia University); M.S. (Indiana State University); Art Education
Dr. Arthur Elfand

Gary Stanley Dansie, Melbourne, Victoria, Australia; B.Ed. (Phillip Institute of Technology); M.A.; Education
Dr. W. D. Dowling

Asitkumar De, Calcutta, West Bengal, India; B.S. (University of Calcutta); M.S. (Carnegie-Mellon University); Physics
Dr. J. Shigemitsu

Dagem Dejene, Yirgalem, Ethiopia; B.A. (Denison University); M.A.; Political Science
Dr. Richard P. Gunther

Johannes Gerhardus Denekamp, Detroit, MI; B.A. (Wayne State University); M.A.; Economics
Dr. Edward Ray

Jeffrey Mark Dener, Columbus, B.S. (Bucknell University); Chemistry
Dr. David J. Hart

David DeSantis, Stafford Springs, CT; B.S. (Butler College); Medical Microbiology and Immunology
Dr. J. D. Pollack
Norman Leroy Kauffman, Columbus; B.S. (Eastern Mennonite College); M.B.A. (University of Montana); Accounting and Management Information Systems
Dr. Jesse F. Dillard
Ronald James Kerans, Enon; B.S., M.S. (Wright State University); Metallurgical Engineering
Dr. John Hirth
Rosemary Jane Key, Worthington; B.H.E. (Stellenbosch University); B.S. (Pretoria University); M.S.; Home Economics
Dr. Kathryn Stafford
Fanhash Khorrami, Iran; B.S., B.S.E.E., M.S.; Electrical Engineering
Dr. Umut Ozguner
Jong-Seon Kim, South Korea; B.A. (Yonsei University); Economics
Dr. Hajime Miyazaki
Mi Sook Kim, Seoul, South Korea; B.S., M.S. (Yonsei University); Home Economics
Dr. Virginia M. Vitan
Yoo Bong Kim, Seoul, South Korea; B.S., M.S. (Yonsei University); Geology and Mineralogy
Dr. Walter Sweet
Helene Barbara Kollman, Pittsburgh, PA; B.S., M.A.; Education
Dr. Donald Herfele
Joan Carol Koonce, Pink Hill, NC; B.S. (North Carolina Central University); M.S.; Home Economics
Dr. Nancy M. Rudd
Joan E. Krone, Columbus; B.S. (Wes Liberty State College); M.S.; M.S.; Computer and Information Science
Dr. William F. Ogden
Sabine Plocher Kuhn, West Germany; B.S.; M.S.; Microbiology
Dr. Robert Pfister
Jenna Tedrick Kuttruff, Nashville, TN; B.S., M.S. (Southern Illinois University); Home Economics
Dr. Lucy Sibley
Thomas Gerard Lammen, Burlington, IA; B.S. (Iowa State University); M.A. (University of Northern Iowa); Botany
Dr. Tod Stovessy
Kim Alan Lance, Wooster; B.A. (College of Wooster); M.S.; Chemistry
Dr. Darlyn Basch
Peter Nathan Lasersohn, Shaker Heights; B.A. (Earlham College); M.A.; Linguistics
Dr. David Doury
Chih-Shone Lee, Taipei, Taiwan, R.O.C.; B.S. (National Tsing Hua University); M.S. (National Taiwan University); Chemistry
Dr. David J. Hart
Choong-Hwan Lee, Seoul, South Korea; B.S., M.S. (Seoul National University); Biophysics
Dr. Robert T. Ross
Sunsook Lee, Seoul, South Korea; B.S. (Yonsei University); Chemistry
Dr. Heinz G. Floss
Christos Leotsarakos, Greece; B.S.C.E. (National Technical University of Athens); M.Eng. (The University of Sheffield); Civil Engineering
Dr. Zoltan A. Nemeth
Steven Robert Levitt, Lexington, KY; B.A. (Montana State University); M.A. (West Virginia University); Communication
Dr. Stephen R. Acker
Ming-Cheng Liang, Feng-Shan, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S.; Electrical Engineering
Dr. Prabhaker H. Pathak
Fuchun Joseph Lin, Kaohsiung, Taiwan, R.O.C.; B.S., M.S. (National Chiao Tung University); M.S.; Computer and Information Science
Dr. Ming Liu
Kuanchung John Lin, Taiwan, R.O.C.; B.S., M.S. (National Taiwan University); Engineering Mechanics
Dr. Jane K. Lee, Dr. Stephen Bechiel
Robert Anthony Lordo, Columbus; B.S. (University of South Carolina); M.S.; Statistics
Dr. Douglas Wolfe
Charles Michael Loyd, Columbus, A.B., M.S. (West Virginia University); Home Economics
Dr. Sharon Redick
Gregory William Luli, Columbus; B.S., M.S.; Microbiology
Dr. William Strehl
Moham Manoharan, Salem, India; B.Tech. (Indian Institute of Technology); M.S.; Metallurgical Engineering
Dr. John Hirth
Mary Catherine Marks, Santa Cruz, CA; B.S., M.A. (San Jose State University); Health, Physical Education and Recreation
Dr. Daryl L. Siedentopf
Andrew Francis Martin, Columbus; B.S.C.E., M.S.C.E. (Ohio University); M.S.; Engineering Mechanics
Dr. Arthur Leissa
Mary Evelyn Maxwell, Akron; B.S. (Ashland College); M.S. (The University of Akron); Education
Dr. Alan Osborne
Judith H. McConnell, Westerville; B.S.Ed.; M.A. (University of Michigan); M.A.; Health, Physical Education and Recreation
Dr. Seymour Kleinman
William Jeffrey McKibben, Columbus; B.A., M.A.; History of Art
Dr. Howard G. Crane
Louis A. Menchaca, River Ridge, LA; B.A. (Saint Mary's University); M.A.; Music
Dr. Tere Forsyth
Edward Lewis Michelini, Columbus; B.S. (District of Columbia Teacher's College); M.A.M. (Stanford University); M.A.; Education
Dr. Keith Hall
Dennis Gerard Milbert, Rockville, MD; B.A. (University of Colorado); M.S.; Geodetic Science and Surveying
Dr. Richard H. Rapp
Kathryn Sue Miller, Morgantown, WV; B.A. (Allegheny College); M.S. (West Virginia University); Labor and Human Resources
Dr. Marcus Sanderson
Linda Jean Milligan, Columbus; B.A., M.A.; English
Dr. Patrick B. Mullin
Bonhong Min, South Korea; B.A. (Seoul National University); M.S. (Yonsei University); OSU Biochemistry Program
Dr. Lee Johnson, Dr. Douglas Foster
Gail Maynard Moehlman, Lake Orion, MI; B.A. (Central Michigan University); M.A.; Vocational Education, Comprehensive Program
Dr. David Adams
Gabor Mousong, Tatahanya, Hungary; Diploma (Budati University); Mathematics
Dr. Michael Davis
Miguel Angel Munoz, Aguada, PR; B.S. (University of Puerto Rico); M.S.; Agronomy
Dr. Jerry Bigham
Barbara Brown Nichols, Marysville; B.S.H.E., M.Ed. (Xavier University); Education
Dr. John Hough
Josiah Ochieng, Kenya; B.S. (Nairobi University); M.S.; OSU Biochemistry Program
Dr. Richard Treym
David Mark Ogle, Westerville; B.S.; M.S.; Computer and Information Science
Dr. Karsten Schuon
Donal Padriga O Mathúna, Ireland; B.Sc. (Trinity College); Pharmacy
Dr. Raymond Dowitch
John Edward Owen II, Tiffin; B.M.E. (Illinois Wesleyan University); M.M. (Southern Illinois University); Music Dr. A. Peter Costanza

Sharon L. Pape, Columbus; B.S., M.A. (Miami University); Education Dr. Gayle C. Muckelson

June Sung Park, South Korea; B.B.A., M.B.A. (Seoul National University); Interdisciplinary Programs Dr. Robert Barroszynski

Pamela Park-Curry, Columbus; B.A., M.A.; Sociology Dr. Alfred Clarke

Jess Henry Parmer III, Bowling Green; B.A., M.A. (University of Illinois); Classics Dr. Carl C. Schlam

Kathleen Belle Pigg, Minford; B.S., M.S. (Ohio University); Botany Dr. Thomas Taylor

Andrew William Place, Dayton; B.S., M.S. (University of Dayton); Education Dr. I. Phillip Young

Cynthia Ray Putchat, Columbus; B.A. (Brandeis University); M.A.; Psychology Dr. Andrew I. Schwebel

Sathyarayanan Raghavachary, Madras, Tamilnadu, India; B.Tech. (Indian Institute of Technology); M.S.; Metallurgical Engineering Dr. John Hirth

Natarajan Ramanan, Madurai, Tamilnadu, India; B.S. (Indian Institute of Technology); M.S. (Florida Institute of Technology); Mechanical Engineering Dr. Seppo Korpela

Rajiv Ramnath, New Delhi, India; B.Tech. (Indian Institute of Technology); M.S.; Computer and Information Science Dr. Karsten Schum

Md Mushiqur Rashid, Bangladesh; B.A.(Hons.), M.A. (University of Rajshahi); M.Sc. (Carleton University); Statistics Dr. Douglas Wolfe

Krista L. Ratcliffe, Columbus; B.S., M.A. (Ball State University); English Dr. Andrea A. Lansford

James S. Rinehart, McComb; B.S. (Bluffton College); M.A.T. (Indiana University); Education Dr. I. Philip Young

Carolyn Seils Robertson, Granville; B.A. (Denison University); M.A. (Northwestern University); Education Dr. Victor M. Rentel

Martha Kedrowski-Calderon, Mexico; Licenciatura en Fisica y Matematicas, Maestria en Ciencias (Instituto Politecnico Nacional); M.S.; Mathematics Dr. Manishar Madan

Lorraine Hildebrand Saints, Wilmington, DE; B.A. (University of Delaware); M.A.; Psychology Dr. Gifford Weary

Thomas Frederick Schuppe, Fairborn; B.S. (University of Wisconsin); M.S. (Air Force Institute of Technology); Industrial and Systems Engineering Dr. Richard A. Miller

Constantine Sedikides, Greece; B.A. (University of Thessaloniki); M.A.; Psychology Dr. Thomas Ostrom

Heung-Soo Shin, Seoul, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); Chemical Engineering Dr. Kent S. Knaebel

Yinsheng Shueh, Taipei, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.S. (National Sun Yat-Sen University); M.S.; Metallurgical Engineering Dr. John Hirth

Yusef Saleh Siraj-Alli, Makkah, Saudi Arabia; B.S. (King Saud University); M.S.; Horticulture Dr. Harry K. Tayauma

Ann Royal Skopin, Columbus; B.A. (Hiram College); M.A. (Michigan State University); Home Economics Dr. Barbara Neuman

Carol Jo Spencer, Lincoln, NE; B.S., M.A. (University of Nebraska); Vocational Education, Comprehensive Program Dr. Dewey Adams

Anna Srinivasan, Madras, India; B.A. (University of Delhi); M.A. (Delhi School of Economics); Agricultural Economics and Rural Sociology Dr. Richard E. Meyer

Patricia Burgess Stach, Worthington; B.S.Ed.; M.C.R.P.; Interdisciplinary Programs Dr. K. Austin Kerr

Laurie Ann Stenberg, Colma, SD; B.S. (South Dakota State University); M.Ed. (Colorado State University); Home Economics Dr. Janet Luster

Alan Joseph Stern, Columbus; B.S. (Wayne State University); Chemistry Dr. John Swoment

Joan Marie Stevens, Akron; B.A. (The College of Wooster); Pharmacy Dr. Robert W. Bruggemeyer

Marilyn Galvin Stewart, Kutztown, PA; B.Art Ed., M.A., M.A.; Education Dr. Richard Pratte

Bernice Helen Strommer, Richmond, VA; B.A., M.S. (University of Minnesota); M.S.; Agricultural Economics and Rural Sociology Dr. William L. Flinn

Elizabeth Lee Strong, Newfoundland, Canada; B.A., M.Ed. (Memorial University of Newfoundland); Education Dr. Charlotte Hark

Sherry Sukardi, Indonesia; Master's (Sam Houston State College); M.S.; Vocational Education, Comprehensive Program Dr. Dewry Adams

Patricia A. Sullivan, Ogden, UT; B.A., M.A. (University of Utah); English Dr. Andrea A. Lunsford

Sherry E. Sullivan, Strongsville; B.S.Bus.Adm. (Bowling Green State University); Business Administration Dr. John F. Wansos

Paul Antony Sundaram, Madras, Tamilnadu, India; B.Tech. (Indian Institute of Technology); M.S.; Metallurgical Engineering Dr. John Hirth

Jeffrey George Supko, Columbus; B.Sc. (University of Scranton); Pharmacy Dr. Louis Maloos

Helm Suyuthie, Bengkulu, Indonesia; B.S. (IKIP Yogyakarta); M.Ed. (Sam Houston State University); M.S. (FKT IKIP Yogyakarta); Vocational Education, Comprehensive Program Dr. Norval McCaslin

Karen E. Swisher, Bexley; B.A., M.A.; Education Dr. John Cooper

Barend Jacobus E. Taute, Pretoria, Union of South Africa; B.Sc., Hons. B.Sc. (Potchefstroom University); M.Eng. (University of Pretoria); Electrical Engineering Dr. Walter Burnside

Walter Allen Taylor, Columbus; B.S. (Medical University of South Carolina); Pathology Dr. Lloyd Horns

Diane J. Tedick, Columbus; B.A. (Kent State University); M.A.; Education Dr. Elizabeth Bernhardt

Philip S. Terman, South Euclid; B.A., M.A. (Ohio University); English Dr. Anthony Libby

Flo Took, Oak Park, IL; B.S., M.S. (Illinois State University); Home Economics Dr. John Grizzmacher

Bob Vincent Topp, Toledo; B.S.N. (University of Toledo); M.S.N. (University of Cincinnati); Health, Physical Education and Recreation Dr. R. Cory Bates

Nengkuan Tu, Taipei, Taiwan, R.O.C.; B.S., M.S. (Tsing Hua University); M.S.; Physics Dr. K. Naraqari Rao
Joan Frances Turner, Central Falls, RI; B.A., M.A.T. (Brown University); Education
Dr. Charles R. Hancock

Deborah Lee Ulrich, Farmersville, B.S.Nurs.; M.A. (Ball State University); Home Economics
Dr. Patrick McKenny

Behzad Vedaei, Babol, Iran; B.S.E. (University of North Carolina); M.S.; Civil Engineering
Dr. Alfred G. Bahara

Gabriel Daniel Villa-Salvador, Mexico; Licenciatura en Fisica y Matematicas, Maestria en Ciencias (Instituto Politecnico Nacional); M.S.; Mathematics
Dr. Manohar Madan

Robert Anton Walch, Columbus; B.S. (Florida Institute of Technology); M.A. (Indiana University of Pennsylvania); M.S.; Physics
Dr. Randall Knight

Naheed Wali, Hyderabad, India; B.E. (Bangalore University); M.S.; Bio-Medical Engineering
Dr. Jagiwal Jagadeesh

James John Walker, Columbus; B.S. (Central Michigan University); M.S. (Montana State University); Anatomy
Dr. James King

Robert Paul Welker, Columbus; B.A., B.S., M.A.; Education
Dr. Bernard Mehl

Gregory Thomas West, Salisbury, MD; B.S. (University of Delaware); M.S.; Agricultural Engineering
Dr. Robert Sykes, Dr. Dennis P. Stombaugh

Philip J-L. Westfall, Miami, FL; B.S. (Ohio University); M.A.; Education
Dr. Gilbert Jerius

Paul Harrison Whitaker, Mt. Vernon, A.B. (Bethany Nazarene College); M.S. (Oklahoma State University); Education
Dr. Suzanne Damarin

Frederick C. Whiteman, Columbus; B.S.Ed., M.A.; Education
Dr. Suzanne Damarin

Richard Whikutus, Pasaic, NJ; B.A. (Rutgers University); M.Sc. (University of Alberta); Botany
Dr. Daniel J. Crawford

Kurt Edwin Williams, Dublin; B.S. (Rio Grande College); M.A. (Marshall University); Education
Dr. William D. Dowling

Anne Elizabeth Wilson, Columbus; B.S. (Michigan State University); Health, Physical Education and Recreation
Dr. Daryl Siedentop

Cynthia Marie Wise, Dayton; B.S.; M.S.; Metallurgical Engineering
Dr. William A.T. Clark

Changhee Won, Taegu, South Korea; B.A., M.A. (Korea University); M.A.; Economics
Dr. Donald Parsons

Hyun-Soo Yoon, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); Computer and Information Science
Dr. Ming T. Liao

Linda Mull Young, Natrona Heights, PA; B.A. (Wittenberg University); M.S.; Botany
Dr. Michael Evans

Mary Jennifer Torres Young, Columbus; B.S. (University of Philippines); Chemistry
Dr. Matthew S. Platts

Sue Ann Youfist-Ross, Elmhurst, IL; B.S. (Northern Illinois University); Chemistry
Dr. Andrew Wojcicki

John P. Zielman, Waldorf, MD; B.A. (Kent State University); M.A.; Psychology
Dr. Richard Kimoki

Yvonne Marie Zubovic, Cuyahoga Falls; B.S., M.S. (University of Akron); Statistics
Dr. Sue Leurgans

Master of Applied Statistics
Shiu-Wei Liao, Tao-yuan, Taiwan; B.A. (National Taiwan University); B.A. (Fu Jen Catholic University); Statistics

Anne Min-Hui Ling, Taipei, Taiwan; B.A. (National Taiwan University); M.A.; Statistics

Master of Architecture
William Waite Markland, Whately, MA; A.B. (Middlebury College); Architecture
Elena Sofianou, Nicosia, Greece; B.S.; Arch.; Architecture

Master of Arts
Judith Imali Abala, Kenya; B.A. (Wilmington College); Black Studies

Joyce Camille Abma, Springfield; B.A. (Wittenberg University); Sociology

Carol Williams Agler, Columbus; Music
Julie Jane Ainslie, Columbus; B.A. (Beloit College); Sociology

Benjamin Xiaoqing An, Qingdao, P.R.C.; B.A. (Nanjing Institute of Technology); M.A. (East China Normal University); Linguistics

Bradley Allan Arnold, Columbus; B.A. (University of Pennsylvania); Education

Thomas F. Arnold, Columbus; B.A. (Oberlin College); History

Iroabuchi Arum Arum, Anambra, Nigeria; B.Sc. (University of Nigeria); Black Studies

Laura Elaine Atkinson, Columbus; B.A.; Health, Physical Education and Recreation

Joyce Ann Aubuchon, Powell; B.S.Ed.; Education

Hamza Abdel Rahman Bajouda, Makkah, Saudi Arabia; B.A. (Umm Al-Qura University); Art Education

Mary Mae Bardach, Columbus; B.A.; Education

Constance Elizabeth Barrett, Burnt Hills, NY; B.M. (Baldwin-Wallace University); M.M. (University of Notre Dame); Music

Paula Zollinger Baur, Worthington; B.S.Ed.; Education

Brenda K. Belville, Delaware; B.S.Ed.; Education

Regina Ann Benson, Columbus; B.A.; Education

Janine Beran, Westerville; B.A. (Morehead State University); Education

Kathy L. Berry, Columbus; B.S. (Capital University); Music

Pamela Elayne Billiat, Delaware; B.A. (Ohio Wesleyan University); Education

Melvina J. Bina, Reynoldsburg; B.S. (Viterbo College); Education

Sofia Rebecca Bittner, Gahanna; B.S. (Indiana University); Education

Virginia Jane Bletz, Harrisburg; B.S.Ed.; Education

Georgia Colleen Boggs, Hilliard; B.S.; B.A.; Education

Christy Ann Bosch, Rockbridge; B.A. (Muskingum College); Education

Patti Ann Bower, Westerville; B.M.Ed. (Otterbein College); Education

Stuart Bowman, Cannock, England; B.A. (University of Liverpool); Geography

Jami Dawn Bray, Garrettsville; B.A.; Economics

Quentin Montague Briggs, Columbus; B.S. (University of Texas); Education

Aphrodite Fotinou Brilliant, Columbus; B.A. (The American College of Greece); Education

Robert F. Brindle, Hilliard; B.S. (Kent State University); Journalism

Jocelyn Maree Brown, Lexington; B.A. (Wittenberg University); Education
Sharon Dawn Foreman, Ontario, Canada; B.Mus.Ed. (Union College); Music
James Douglas Frampton, Worthington; B.S.Ed.; Education
Leatha L. Franta, Mansfield; B.S.Ed. (Ashland College); Education
Lisa Gail Frost, Louisville, KY; B.A. (Eastern Kentucky University); Journalism
Marcia Marlene Fry, Columbus; B.S.; Education
Ophelia Seals Fry, Belleville; B.S.Ed.; Education
Akira Fukuda, Matsuda, Kanagawa, Japan; B.A. (Saint Paul's University); East Asian Languages and Literature
Constance Joy Gainok, Wellington, B.S. (Bowling Green State University); Speech and Hearing Science
Cynthia Gale Gallagher, Cuyahoga Falls; B.S.Ed.; Education
Ellen Foundas Gallo, Columbus; B.A. (Wellesley College); English
Camilla Kay Gallaway, Moses Lake, WA; B.A. (Northwest Nazarene College); Music
Joe M. Garabits, Columbus; Cert.Med.Ill., B.F.A.; Art Education
James Joseph Gardell, Columbus; B.S.Ed.; Education
Judith Treherne Garrett, Worthington, B.A. (Denison University); Education
Janet G. Getz, Columbus; B.S. (Northwestern University); Education
Richard Rex Giffin, Columbus; B.S.Ed.; Education
Rachel Ann Gisser, South Euclid; B.A. (Capital University); Education
Ty Ann Goering Lee, Worthington; B.A. (Indiana University); Journalism
Siew Ginong Gong, Malaysia; B.A. (University of Malaya); Education
Otilio González Cortés, Arcibio, PR; B.A. (University of Puerto Rico); Journalism
Karen Hattfield Goodwin, Columbus; B.A. (West Liberty State College); Education
Linda Jean Goodwin, Celina; B.A. (Miami University); Education
Richard Waldron Greene, Los Angeles, CA; A.B. (University of Southern California); Journalism
Beth Ann Grosshans, Cincinnati; B.A. (University of Cincinnati); Psychology
Maria Filipa-Enes Guedens, Columbus; Special Education (Antonio Auriceto da C. Ferreira Institute); Education
Steven Alan Guild, Plymouth, IN; B.A. (DePauw University); Health, Physical Education and Recreation
Apurva Mathur, Calcutta, India; B.E. (Hons.), M.Sc. (Hons.) (Birla Institute of Technology and Science); Economics
Gretchen Elizabeth Matteson, Minneapolis, MN; B.A. (University of Minnesota); Sociology
Joanne Zuiderveit McCarter, Lexington, B.S.Ed.; Education
Marcia Jo Mc Cracken, Mt. Gilead; B.Ed. (Bowling Green State University); Education
Cathy Lin McGee, Pickerington; B.A. (Honors) (University of Illinois); Music
Marc Alan McGee, Pickerington; B.S. Industrial Design; Education
David James McIntyre, Columbus; B.A. (Otterbein College); Education
Joan Marzluf Meehan, Columbus; B.S. (Ohio Dominican College); Education
Sarah K. Minhas, Toronto, Ontario, Canada; B.A. (University of Toronto); B.Ed. (Western Michigan University); English
Miriam Louise Miller, Smithville; B.A. (Goshen College); Education
Paul Brian Miller, Granville; B.A. (College of Wooster); English
Richard Allen Miller, Olmsted Falls; B.S. (Oberlin College); Industrial Design
Sarah K. Minhas, Toronto, Ontario, Canada; B.A. (Honors) (University of Toronto); M.A. (University of Western Ontario); Journalism
Miriam L. Moeller, Columbus; B.S.Ed.; Education
Patricia Kay Moore, Bucyrus; B.S. (Delaware College); Journalism
Jeffrey Leonard Morrison, Canada; B.A. (Brigham Young University); Political Science
Betty Anne Bartell Morris, Columbus; B.S.Ed.; Education
Nancy Single Moss, Columbus; B.S. (University of Illinois); Music
James Bradford Muesig, Columbus; B.Mus.Ed.; Music
Chiquita Bernadette Mullins, Atlanta, GA; B.A. (Vassar College); M.A. (Ohio University); Journalism
Rashid C.N. Murphy, Duquesne, PA; B.A. (University of Pittsburgh); Black Studies
Mary M. Musa, Kaltungo, Bauchi, Nigeria; L.L.B. (University of Jos); B.L. (Nigerian Law School); Black Studies
Janani Shankar Narayan, Bombay, Maharashtra, India; B.A. (University of Bombay); Education
Ethel Hopson Nelson, Columbus; B.S.Ed.; Education
Susan Elizabeth Nethem, Columbus; B.S. (Franklin University); Education
Elizabeth Meiko Nennich, Columbus; B.A., M.A. (San Jose State University); Languages
Les A. Neufeld, Columbus; B.A. (Wittenberg University); B.S.Ed. (Wittenberg University); Education and Recreation
Carolyn Chrisman Oppenheimer, Worthington; B.S.Ed.; Education
Yumiko Osaka, Kumagaya, Saitama, Japan; B.A. (Nihon University); East Asian Languages and Literatures
Karen Callahan Owen, Columbus; B.S.H.E.; Education
Georgia Toumazou Paletta, Cyprus; B.S. (Athens University); M.A.; Education
Loretta Lee Peckol, Ashatabula; B.A.; Public Administration
Cathy Patricia Pekel, Columbus; B.S.Ed.; Education
Linda Ann Perkins, Columbus; B.A.; East Asian Languages and Literatures
Rick Lee Perry, Sturgis, MI; B.A. (Central Michigan University); Political Science
David Larcomb Petree, Columbus; B.S. (College of William and Mary); Education
Theodore A. Phillip, St. Croix, VI; B.S. (Barber-Scotia College); Education
Tamera Lee Phillips, Hilliard; B.A. (Harding University); Education
Judith Linda Pinel, Columbus; B.S.Ed.; Art Education
Mary Loretta plank, Columbus; B.S.Ed.; Education
Leona Catherine Pound, Granville; B.S. (Jacksonville State University); Education
Sarah Louise Price, Martinsville, VA; B.S. (Johnson C. Smith University); Health, Physical Education and Recreation
Robert Joseph Ragusa, Winterville; B.S.Ed.; Philosophy
Sandra Beach Rainey, Asheville; B.S.Ed.; Education
Marquita Belen Rand, Columbus; B.S. (Andrews University); Speech and Hearing Science
Arthur Lytle Ranney, Fort Mitchell, KY; B.A. (University of Cincinnati); Journalism
Wendy Lynn Rasor, Winterville, B.A. (West Virginia State University); M.A.; Education
Sean Michael Reardon, Columbus; B.A.; Education
Andryst Jane Redfern, Westerville; B.S. (University of Pittsburgh); Education
Beth A. Reik, Columbus; B.S.Soc.Wel.; Education
Kathleen Frances Reynolds, Columbus; B.S.Ed.; Education
Michael Allen Reynolds, Columbus; B.A. (University of Colorado); Education
Teresa Elena Ricarte, Conneaut; B.S. (Bowling Green State University); Education
Cathy L. Rickey, Mansfield; B.S.Ed. (Ashland College); English
Aimee Rachelle Rigal, Bowling Green; B.A.; Speech and Hearing Science
Susan Jean Ritchie, Richmond Heights; B.A. (Knox College); English
Judith Alison Rivalland, Claremont, Australia; B.Ed. (University of Western Australia); Education
Daniel Edgar Roberts, Delaware; B.S.Ag.; Education
Tamara Lynn Robinson, Bucyrus; B.S.Ed. (Kent State University); Education
Taree Ann Rothrock, Columbus; B.A. (Ohio University); Education
Jacqueline Carroll Rotruck, Indianapols. IN; B.A. (Milligan College); Music
Carol Ann Ruane, Dunmore, PA; B.S. (Indiana University of Pennsylvania); Mathematics
Donald Allan Russell, Dublin; B.S.Ed.; Education
Soko V. Sackor, Totota, Liberia; B.S. (Tennessee State University); Black Studies
Erin Farrel Salva, Mt. Vernon; B.A. (Kenyon College); Education
Erdine Sayan, Ankara, Turkey; B.S., M.S. (Middle East Technical University); Philosophy
Brenda Eileen Tague, Gahanna; B.S. (Ohio University); Mathematics
Tawana Marie Tallb, Washington, DC; B.A. (Ohio Dominican College); Education
Susan Lydia Terpak, Assonet, MA; B.S. (Bridgewater State College); Health, Physical Education and Recreation
Richard Allan Tewksbury, Reynoldsburg; B.A. (Butler University); Sociology
Glenna Jean Tharp, Mahomet, IL; B.S. (University of Illinois); Education
Ann H. Thomas, Marion; B.S. (Alderson Broaddus College); M.A. (Eastern Baptist Theological Seminary); Education
Donna Lynn Thomas, Norristown, PA; B.A. (Shippensburg State College); Education
Hideo Tomita, Fukushima, Japan; B.A. (Keio University); M.A., Linguistics
Pei-Ying Tsai, Taiwan, R.O.C.; B.A. (Chinese Culture University); Education
Ying-Chian Tsao, Taiwan, R.O.C.; Bachelor's (Fu-Jen Catholic University); Speech and Hearing Science
Karen Rose Vander Ploeg, Columbus; B.A. (Macalester College); Political Science
Jody Lee Van Vye, Zanesville; B.S.L.H.R.; Education
Donna Emilie Vary, Columbus; B.A. (University of Michigan); Economics
Judy Kari Virgallite, Worthington, B.S. (Miami University); Education
Julie Anne Vondrell, Lima; B.A.; Education
Brent J. Walker, Westerville; B.A. (Otterbein College); M.A., M.A.; East Asian Languages and Literatures
Bethany Ann Waluszak, Wheeling, WV; B.S. (Michigan State University); Education
Xiaodong Wang, Beijing, P.R.C.; B.S. (Inner-Mongolia Normal University); M.A. (Beijing Broadcasting Institute); Journalism
Yann-Ling Wang, Taiwan, R.O.C.; Bachelor's (Chinese Culture University); Education
Jane L. Warne, Columbus; B.A. (Miami University); Education
Teresa Jane Watkins, Sunbury; B.S. (Bowling Green State University); Education
Teresa J. Orewiler Weidenbusch, Columbus; B.A.; Art Ed.; Art Education
Rick Lewis Weininger, Bexley; B.S.Ed.; Education
Eric Lee Welch, Huntington, WV; B.B.A. (Marshall University); Health, Physical Education and Recreation
Kathleen Jeanne Welch, Worthington; B.A.; Education
Thomas H. Wendt, Monroeville; B.S.Ed.; Education
Amy Elizabeth Wensanger, Marion; B.S.Ed.; Education
Conrad Wesselhove, Seattle, WA; B.A. (Lewis and Clark College); Journalism
David Charles Wessely, Elyria; B.A. (Muskingum College); Mathematics
Joan Elizabeth Whaley, Columbus; B.A.; Speech and Hearing Science
Mark Alan Wheeler, Gahanna; B.S. (Rio Grande College); Health, Physical Education and Recreation
Jennifer Lynne Whipple, Bridgewater, NJ; B.A. (Oberlin College); Psychology
Linda Sue White, Worthington; B.A.; Education
Susan Roberts White, Edison; B.A. (Olivet College); Education
Nancy Elaine Whittier, Columbus; B.A.; Sociology
Todd J. Wiebers, Columbus, B.A.; Psychology
Ruby Anita Williams, Tutwiler, MS; B.A. (Tougaloo College); Journalism
Janice Witherspoon, Lancaster; B.A. (Morris College); Education
Andrew Michael Wood, Herford, England; B.A. (Liverpool University); Geography
Pieter Claesen Wykoff, Cleveland, B.Jour. (University of Texas); Journalism
Feng-Mei Yang, Taiwan, R.O.C.; M.A. (National Taiwan Normal University); Education
Meng Ying Yang, Taipei, Taiwan, R.O.C.; B.A. (National Chengchi University); Education
Sheue-Ju Yang, Taipan, Taiwan, R.O.C.; B.A. (Chinese Culture University); Education
Deborah Richards Yontz, Columbus; B.A. (Ohio Northern University); Education
Tanya Lennii Young, Cary, IN; B.A. (Indiana University at Bloomington), Education
Besse P. Zarafonitis, North Kingstown, RI; B.A. (University of Rhode Island); Journalism
Xiuzhi Zhou, Shanghai, P.R.C.; B.A. (Shanghai Teacher's University); History
Ronald Eugene Zielke, Carey; B.S.Ed.; Mathematics
Susan Marks Zilber, Shaker Heights; B.A. (Duke University); Psychology
Zachary Zunshine, Israel; Diploma (Ural State University); Political Science

Master of Business Administration

Jamie Belle Beard, Reynoldsburg; B.S.Bus.Adm.; Business Administration
Susan Jeanette Brown, Columbus; B.S. (Miami University); Business Administration
Jan Huiu Lie, Indonesia; B.S.Bus.Adm.; Business Administration
Yiling Lin, Taipei, Taiwan, R.O.C.; B.A. (Chung Yuan Christian University); Business Administration
Yichen Tsai, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); Business Administration

Master of City and Regional Planning

Seyed Javad Ashrari, Tehran, Iran; B.Arch.; M.Arch. (National University of Iran); City and Regional Planning
Raghu Ram Bhat, Bombay, India; B.Arch.(Hons) (Indian Institute of Technology); City and Regional Planning
Sook-Hi Kang, Seoul, South Korea; B.A. (Ewha Woman's University); City and Regional Planning
Loretta Lee Peckol, Ashtabula; B.A.; City and Regional Planning
Ismael Bin Sulong, Malaysia; B.A.(Hons) (University of Malaysia); City and Regional Planning
Chall-Kyoung Sung, Seoul, South Korea; B.S., M.Eng. (Hong Ik University); City and Regional Planning

Master of Fine Arts

Jacqueline M. Boyle, Columbus; B.F.A. (Bowling Green State University); Art
John Campbell Finnegan, Worthington; B.A. (University of Massachusetts); Theatre
Mark Franklin Gordon, Rochester, NY; B.A., B.A. (Oberlin College); Art
Hyosun Kim, Seoul, South Korea; B.F.A. (ChungAng University); M.A. (University of Denver); Theatre

Dana Lynn Louis, Madison, WI; B.S. (University of Wisconsin at Madison); Art
Iris Evelyn Sandkuhler, Columbus; B.F.A.; Art
Madeleine Marie Sobota, Upper Arlington; B.A. (Saint Joseph's College); M.A. (Northwestern University); Theatre

Master of Labor and Human Resources

Keicia Renee Chasteen, Covington; B.S.Soc.Wel.; Labor and Human Resources
Melanie L. Diggo, Columbus; B.A. (Capital University); Labor and Human Resources
John Francis Haunemesser, Newark; B.A. (Ohio University); Labor and Human Resources
Linda Jean Hendrickson, Janesville, WI; B.S. (University of Wisconsin at Madison); Labor and Human Resources
Lisa Ann Hughes, Ada, MI; B.S. (Michigan State University); Labor and Human Resources
Thomas Edward Markley, Chillicothe; B.A. (Wright State University); Labor and Human Resources
Virginia Young Midkiff, Columbus; B.A.; Labor and Human Resources
Tim Lewis Reynolds, Marietta; B.Bus.Adm. (Ohio University); Labor and Human Resources
Richard Warren Shaw, Westerville; B.S. (Taylor University); Labor and Human Resources
James Ray Walker, Columbus; B.S.Bus.Adm.; Labor and Human Resources

Master of Landscape Architecture

Diana Hope Rowe, Columbus; B.S. (Denison University); Landscape Architecture

Howard Alan Bokanyi, Jr., North Olmsted; B.S.Agr.; Poultry Science
James Louis Bolinger, Gahanna; B.S.E.E.; Electrical Engineering
Mark Edward Boos, Norwalk; B.S.; Mechanical Engineering
Dasse Bouray, Fako, Mali; B.S. (Rural Polytechnic Institute); Agricultural Education
Douglas Edward Boyd, Huber Heights; B.S.M.E.; Mechanical Engineering
Mark Farrell Briggs, Columbus; B.A.; Preventive Medicine
Marianne Rose Brown, Pittsburgh; B.S. (University of Pittsburgh); Chemical Engineering
Laura Louise Drobnich, Highland Heights, B.S.N. (University of Akron); Nursing

Stephanie Smith Dudra, Columbus: B.S. Food Sc.; Food Science and Nutrition

Stephen P. Dudra, Berea; B.S.M.E.: Industrial and Systems Engineering

Karen Ann Duncan, Saskatchewan, Canada; B.S.H.E.c.: (University of Saskatchewan); Home Economics

Michael J. Earley, Dayton; B.A. (Northwestern University); Physiological Optics

Mary Anne Edersheim, Dayton; B.S. (University of Dayton); Home Economics

Amr Ibrahim Moha Eisaadany, Egypt; B.Sc., M.Sc. (University of Alexandria); Computer and Information Science

Kurt Paul Erickson, Cincinnati; B.S.E.E. (University of Cincinnati); Electrical Engineering

Kathleen Myers Escombe, Waynesboro, VA; B.S. (Virginia Polytech Institute); Agricultural Education

Mohsen Esfahanian, Kishan, Iran; B.S.M.E.; Mechanical Engineering

Raman V. Esswaran, India; B.S. (The Pennsylvania State University); Welding Engineering

Richard Todd Everhart, Columbus: B.S.Cer.E.; Ceramic Engineering

Peggy Ann Evert, Westerville; B.S. (Franklin University), Nursing

Yunghua Fang, Hsinchu, Taiwan, R.O.C.; Bachelor (Fen Chia Institute); Agricultural Education

Catherine Michael Dentan, Columbus: B.A.; M.A. (State University of New York at Buffalo); Mining Engineering

Constance Lynn Dittmer, Glenshaw, PA; B.S. (Indiana University of Pennsylvania); Home Economics
Charles Frederick Layton, Ames, IA; B.S. (Iowa State University); Industrial and Systems Engineering

Sue H. Leidtke, Delaware; B.S.Nurs.; Nursing

Joel David Lema, Kenner, LA; B.S.E.E. (University of New Orleans); Electrical Engineering

Esther Chippa Levenson, Columbus; B.S.N. (Columbia University); M.S.; Nursing

Guang-Yeu Lin, Yuan-Lin, Taiwan, R.O.C.; B.S. (National Taiwan University); Mechanical Engineering

Weihung Lin, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Electrical Engineering

Elizabeth Marie Little, Napoleon; B.S.Agr.; Agricultural Education

Daniel Jay Littlefield, Marietta; B.S.Ch.E.; Chemical Engineering

Deborah Ann Logsdon, Columbus; B.S.Nurs.; Nursing

David Joseph Long, Columbus; B.S.Agr.; Bio-Medical Engineering

Ronald Wayne Lawes, Perth, Australia; Associateship (Western Australian Institute Technology); Civil Engineering

David Lucatz, Washington, DC; B.S. (Hebrew University); Industrial and Systems Engineering

Howard Walter Ludewig, Mingo Junction, B.S.W.E.; Welding Engineering

Patricia Ann Luetkemeier, Columbus; B.S. (Ball State University); Nursing

Bryan Alan Luther, Columbus; B.S. (Ohio University); Physics

Neil Robert Manning, Columbus; B.S. (The Pennsylvania State University); Pathology

Murali Manohar, Madras, Tamil Nadu, India; B.Tech.; M.S. (Indian Institute of Technology); Interdisciplinary Programs

Carol Ann May, Zanesville; B.S.N. (Ohio University); Nursing

Deborah Ann McCarthy, Lynnwood, WA; B.S. (Seattle University); Chemistry

Andrew Lee McCarr, Monroe; B.S. (University of Tennessee); Natural Resources

Marjorie Lynn McClusky, Washington Court House; B.S. (Bob Jones University); Home Economics

Stewart Fenton McDonald, Jr., Martinsburg, WV; B.S.E.E. (West Virginia University); Electrical Engineering

Paul Thomas McGowan, Columbus; B.A. (Case Western Reserve University); Welding Engineering

Rita O. Meneguer, Santo Domingo, Dominican Republic; B.E. (National University of Pedro H. Urena); Agricultural Economics and Rural Sociology

Beth Ann Miller, Columbus; B.A. (University of Toledo); Pathology

Bozena M. Misiewicz-Hang, Warsaw, Poland; B.S.N. (Capital University); Nursing

John Albert Molnar, Jr., Youngstown; B.E. (Youngstown State University); Chemical Engineering

Lucio Reinaldo Munoz Toledo, San Salvador, El Salvador; Ingeniero Agronomo (Universidad Nacional del Salvador); Agricultural Economics and Rural Sociology

Paul Murray, Hyderabad, India; B.Tech. (Indian Institute of Technology, Madras); Chemical Engineering

Ananda Srinivas Murthy, Mysore, India; B.Tech. (Institute of Technology); Welding Engineering

Rajagopal Narasimhan, Madras, India; B.A. (Indian Institute of Technology); Civil Engineering

John Eric Navarro, Worthington; B.S.; Nat. Res.; Natural Resources

Mingbi Edwin Ngidi, Natal, Union of South Africa; B.S. (Berea College); Dairy Science

James R. Norton, Columbus; B.A. (Calvin College); Pharmacy

Sharon Lynn Ouldin, Orelly, Sylvania; B.S. (Miami University); Home Economics

Narongkas Ootthanakorn, Bangkok, Thailand; B.Eng. (Kaetsart University); Geodetic Science and Surveying

John Sedat Ozcomert, Columbus; B.S. (Southern Connecticut State University); Chemistry

Fernando Enrique Pacheco, Concepcion, Chile; B.S. (Universidad De Concepcion); Electrical Engineering

Ping Pan, Sickuan, P.R.C.; B.S., M.S. (Beijing Institute of Technology); Mechanical Engineering

No Hyoung Park, Seoul, South Korea; B.S. (Yung Nam University); Animal Science

Vijay Madhav Partha Sarathy, Madras, India; B.Tech. (Indian Institute of Technology); Ceramic Engineering

Ching-Gang Peng, Taipei, Taiwan, R.O.C.; B.S. (National Cheng-Kung University); Civil Engineering
Kathryn Mary Perlman, Toledo; B.S. Nurs.; Nursing
Richard Olaf Pflaum, Columbus; B.S. (Youngstown University): Allied Medical Professions
Linh Ngoc Pham, Columbus; B.S.E.E.; Electrical Engineering
Anita Maria Przemieniecki, Beaver Creek; B.S.M.E. (Cornell University): Mechanical Engineering
Yasin Hassan Rahim, Tanzania; B.S. (Drake University): Pharmacy
Maria Lourdes A. Ramos, Quezon City, Philippines; B.S. (University of the Philippines): Statistics
John Leonard Read, Columbus; B.S. (University of Missouri): Mathematics
Robert Reginald Rice, Jr., Columbus; B.S. (Kent State University): Ph.D.; Medical College of Georgia): Preventive Medicine
Gordon Lyman Roberts, Montreal, Canada; B.S.E. (Carleton University); D.D.S. (McGill University): Dentistry
Ronald Frederick Rohde, Brook Park; D.V.M.; Veterinary Preventive Medicine
Kathryn Amanda Rose, Cincinnati; B.S. (University of Cincinnati): Home Economics
Marcia Lorraine Rose, Orangeburg, SC; B.S. (South Carolina State College): Home Economics
Nancy Anne Rose, Columbus; B.S. (University of Missouri): Horticulture
John Anthony Schnurrenberger, West Mansfield; B.S.E.E.; Electrical Engineering
Timothy Craig Schutt, Novelty; B.S.M.E.; Mechanical Engineering
Lawrence Edward Scipioni, Columbus; B.S. (State University of New York at Buffalo): Physics
Halim Bin Setan, Malaysia; B.S. (North East London Polytechnic): Geodetic Science and Surveying
Kambiz Shahzadzi, Columbus; B.S.E.E.; M.S.; Welding Engineering
Yu-Lin Shen, Kaohsiung, Taiwan, R.O.C.; Bachelor's, M.A. (Cheng-Kung University): Metallurgical Engineering
Chin-Hang Shu, Taipei, Taiwan, R.O.C.; B.S. (Tunghai University): Chemical Engineering
Deepak Sirdeshmukh, Warangal, India, B.Pharmacy (Kakatiya University): Pharmacy
Ann Marie Smith, Columbus; B.S.Nurs.; Nursing
Bryan C. Smith, Penticton, NY, B.S. (Clarkson University): Chemical Engineering
Stephen Noel Spencer, Columbus; B.S. (University of Florida): Computer and Information Science
John Edward Stassenko, Pittsburgh, PA; B.S. (University of Pittsburgh): Nuclear Engineering
Rodger Allen Stinson, Pickerington; B.S. (Ball State University): Preventive Medicine
Denis Robert St. Laurent, Newington, CT; B.S. (University of Connecticut): Chemistry
Patricia Carmen Stubt-Mckinney, Mansfield; B.S.N. (Ohio University): Nursing
Dongchu Sun, P.R.C.; B.S., M.S. (East China Normal University): Statistics
Shelli Ann Talagan, New Middletown, B.S.N. (Youngstown State University): Nursing
Subrata Krishna Talukdar, Calcutta, India; B.A., B.A. (Calcutta University): Pathology
Anna Tarr, Monrovia, Liberia; B.S.Nurs.; Nursing
Dale Gilbert Thompson, Columbus; B.S.Nat.Res.; Metallurgical Engineering
Donna Thomson, Columbus; B.S.H.E.; Home Economics
James Joseph Thordarson, San Francisco, CA; B.A. (San Francisco State University): Geology and Mineralogy
Shi-Huan Tien, Beijing, P.R.C.; B.S. (Northrop University): Electrical Engineering
Betty K. Todd, Lafayette, AL; B.S., M.Ed., M.S. (Tuskegee University): Home Economics
Thomas John Trick, Columbus; B.S., M.S. (University of Illinois): M.B.A. (Indiana University): Ceramic Engineering
Atsushi Ueda, Tokyo, Japan; B.S. (Waseda University): Engineering Mechanics
Ann Vall, Pueblo, CO; B.S. (Colorado State University): Home Economics
Barbara Jane Vance, Mt. Sterling; B.A. (Ohio Dominican College): Home Economics
Wesley L. Vargas, San Jose, Costa Rica; M.D. (University of Costa Rica): Allied Medical Professions
Balraj Varma, Cochin, India; B.E.(Hons.) (Birla Institute of Technology and Science): Civil Engineering
Rosa Isabelina Vasquez, Quito, Ecuador; B.S. (Universidad Central): Zoology
James K. Wallace, Litchfield; B.S.Agr.; Agricultural Education
Mary Anne Welch, Tiffin; B.S.A.I.Hth.Prof.; Allied Medical Professions
Hung-Chen Wen, Taiwan, R.O.C.; B.S. (Tunghai University): Chemical Engineering
Janice S. Wildermuth, Wapakoneta; B.S. Nurs.; Nursing
Peter Blaine Wiley, Perryburg, B.S. (University of Notre Dame): Computer and Information Science
Melisa Kay Williams, Columbus; B.S. (Northwestern State University of Louisiana): Natural Resources
Leslie Lee Wilson, Columbus; B.S.Agr.; Plant Pathology
Peter James Wilson, Columbus; B.S. (Cornell University): Physics
John Frederick Windebeene, Detroit, MI; B.S. (Oakland University): Electrical Engineering
Timothy Duane Woodward, Fletcher; B.S.Agr.; D.V.M.; Animal Science
Ying Mei Wu, Kaohsiung, Taiwan, R.O.C.; B.S. (National Taiwan University): M.S. (National Sun Yat-Sen University): Metallurgical Engineering
Hichem Yatich, Sfax, Tunisia; B.S. (Michigan State University): Electrical Engineering
Yuping Yang, P.R.C.; B.S. (Fudan University): Mathematics
Janene Ann Yeater, Mansfield; B.S.N. (Capital University): Nursing
Hong-Jun Yeh, Taichung, Taiwan, R.O.C.; B.S.M.E.; Welding Engineering
Niann-I Yu, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University): Engineering Mechanics
Cheng Zhang, Xian, P.R.C.; B.S. (Shannxi Teacher's University): Welding Engineering
Fengkun Zhao, Shandong, P.R.C.; B.Sc. (Agricultural University of Shandong): Agricultural Economics and Rural Sociology
Michael Anthony Zoglio, Dayton; B.S. (Case Western Reserve University): Pharmacy
Master of Social Work
Harold Alonzo Esterwood III, Cleveland; B.S.; Social Work
Mary Therese Farrell, Elyria; B.S.Soc.Wel.; Social Work
Mercedes Marie Michael, Columbus; B.S.Ed.; Social Work
Rhonda Ann Myers, Logan; B.A. (Ohio University); Social Work
Tony Perez, El Paso, TX: Diploma of Theology (Latin American Bible Institute); B.S.W. (Our Lady of the Lake University); Social Work

Richard James Petruska, Cleveland; B.A., M.A. (Cleveland State University); M.A.; Social Work
Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Acting Dean for Undergraduate Studies: Donald W. Good

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

College of the Arts
Dean: Donald Harris

Bachelor of Arts

Donald J. Glenn, Pittsburgh, PA
Jill Griffith, Mt. Gilead
Karen Jane Horn, Columbus
Robert David Schmitz, Lorain
William Scott Walton, Columbus
Mark Edward Weaver, Canton
Greg L. Welker, Bolivar

Bachelor of Fine Arts

Dwight Earl Alsibach, Columbus
Pamela Jane Beaverson, Elkhart, IN
Suni Lee Boswell, Columbus
Jennifer Margaret Cannon, Dayton
Deborah Lynn Dayton, Mayfield Heights
Fouad Ahmed Ghazzouli, Sidon, Lebanon
Jean Estelle Gidich, Lorain
Stacey Beth Gilbert, Columbus
Osvaldo Pagan-Pagan, Rio Piedras, PR
Christine Scairra, Steubenville
Kenneth Todd Weaver, Columbus
Donna Jean Weigle, Beaver, PA
Amy Marie Williams, Mansfield
Matthew Joseph Zelnik, Lorain

Bachelor of Music

Margaret Virginia Millit, Shadyside

Bachelor of Art Education¹

Joan Marie Uts, Powell

Bachelor of Art Education²

Sandra Kay Barnhouse, Lima
Cathy Lynn Barthelmas, Columbus
Kristen Elise Blum, Columbus
Lawrence James Bovard, Columbus
Ronald Ronae Browder, Clanton, AL
Kurt Roland Christman, Columbus
Cynthia Leigh Clem, Columbus
Kimberley Conley Comar, Jeffersonville
Barbara Jeanne Combs, Marysville
Concetta Di Stefano, Steubenville
Deborah Dolores Doehe, Lima
Jeffrey Paul Draime, Warren
Barbara Carol Draughon, Toledo
Selika Marianne Ducksworth, Columbus
Gwendolyn Lee Eastlake, Salem
Timothy Edward Easton, Akron
Sheryl Ethel Edwards, Canton
Jason Keith Ellis, Zanesville
Pamela Anne Faure, Upper Arlington
Lisa Renee Fields, Lewisburg
Paula Lynn Frank, Delaware
Kimberly Dianne Fuller, Smithsville
Susan Kay Hamse, Westerville
Ben Alan Harshman, Findlay
Richard Barton Hill, Akron
Dwaine Allan Hupp, Heath
Sybil Hyacinth Joseph, Columbus
Douglas Alan Kelly, Archbold
Kristine Suzanne Kendzierski, Brilliant
Lidia Iwona Kolomijec-Gamez, Castalia
Arienne Adorée McCracken, Bellefontaine
Kevin Patrick McGovern, Columbus
Patrick John McSweeney, Jr., Columbus
Adam Clay Miller, Wauseca, WI
Cheryl Ann Morris, Westerville
Penny Lynn Mullins, Hurricane, WV
Caroline Ostrow, Elyria
Paul Wesley Placeway, Worthington
Terry Lynn Rader, Bedford Heights
Jeffrey Powell Rowe, Zanesville
Teresa M. Schurtzinger, Columbus
Dorian Clarke Shanks, Hudson
Laura Letitia Sharp, Columbus
Diana Kathryn Smeters, Westerville
Julie Howe Stalnaker, Canal Winchester
John Henry Stampe, Columbus
Rebecca Lynn Taylor, Wooster
Jennifer Lynn Toft, Upper Arlington
Ann Elizabeth Tomlinson, Glastonbury, CT
Nancy Susanne Weissman, Cleveland
Connie Leigh White, Columbus
Brian Edward Wilford, Columbus
Rebecca J. Winters, Columbus

Bachelor of Science

Robert Eric Almquist II, North Olmsted
Linda Christner, Crestline
Deanna Asad Dalia, Columbus
Michael John Diederer, Columbus
Christopher Vincent DiSalvo, Parfield Park
Erin Elizabeth Garvey, Reynoldsburg
Aaron Scott Goldstein, Columbus
Dawn Elizabeth Gruver, Orangeville
Koshaan Sara Koozekanani, Upper Arlington
Michael Edward Madison, Salem
Kurt Douglas Miller, Columbus
Elizabeth E. Minton, Upper Arlington
Penny Lynn Mullins, Hurricane, WV
Peter Niciforos, Campbell
Bethany Sue Reese, Beavercrest
Randall Scott Regoli, Belleair
Brenda Alice Salmon, Tonawanda, NY
Jaime Darren Tickle, Grove City
Richard Tomm, Cleveland
Kim Allyn Travenna, Belleair
Sandra Michelle Yawetz, Massillon
James Arthur Young, Columbus

College of Biological Sciences
Dean: William A. Jensen

Bachelor of Arts

Paul T. DeVore, Westerville

Bachelor of Science

Robert Eric Almquist II, North Olmsted
Linda Christner, Crestline
Deanna Asad Dalia, Columbus
Michael John Diederer, Columbus
Christopher Vincent DiSalvo, Parfield Park
Erin Elizabeth Garvey, Reynoldsburg
Aaron Scott Goldstein, Columbus
Dawn Elizabeth Gruver, Orangeville
Koshaan Sara Koozekanani, Upper Arlington
Michael Edward Madison, Salem
Kurt Douglas Miller, Columbus
Elizabeth E. Minton, Upper Arlington
Penny Lynn Mullins, Hurricane, WV
Peter Niciforos, Campbell
Bethany Sue Reese, Beavercrest
Randall Scott Regoli, Belleair
Brenda Alice Salmon, Tonawanda, NY
Jaime Darren Tickle, Grove City
Richard Tomm, Cleveland
Kim Allyn Travenna, Belleair
Sandra Michelle Yawetz, Massillon
James Arthur Young, Columbus

College of Humanities
Dean: G. Michael Riley

Bachelor of Arts

Kirk Neil Allton, Columbus
Susan Marie Aman, North Canton
Lisa Louise Arman, Waterville
Brian Keith Baker, Columbus

College of Mathematical and Physical Sciences
Dean: C. William Kern

Bachelor of Arts

Renée Marie Carr, Hamilton
Carl Vaughn Mason, Columbus
Margaret Rose Meyers, Dayton
Guy Richard Scarozza, Columbus
James Michael Schirmer, Ashland
Bachelor of Science

Bradley Beau Branhman, Columbus
Elaine Nancy Farstad, Sunbury
David Ralph Fetterman, Swanton
James William Fournier, Grove City
Alan Frederick Garcia, Shadyside
Scott Steven Gray, Barnesville
Joette Elise Greenstein, Newark
Joel Alan Greff, Bexley
Yau Yan Hui, Hong Kong
Kelly Sue Mattingly, Cincinnati
Susan Scott Applegate, Trinidad
Dean: Joan Huber

College of Social and Behavioral Sciences

Bachelors of Arts

Frank Anastasia III, Cincinnati
Scot Applegate, Solon
Dianna Gail Armstrong, Napoleon
Angela Denise Arnold, Vanlue
Grant Whitney Arthur, Marion
Sheldon Andre Ayen, San Fernando, Trinidad
Michael Dean Ball, Waynesfield
Beet Lenny Bell, Columbus
Alyson Adele Breeh, New Philadelphia
Kimberly Patrice Bryant, Reynoldsburg
Mark Anthony Bucilla, Columbus
Kristine Rae Callaghan, Westerville
Martin Mark Calvary, Columbus
Dean Anthony Carnevale, Columbus
Michael Thomas Colson, Worthington
Andrew Brian Coogle, Fredericktown
Colleen Marie Cook, Columbus
Michele Marie Danne, Elyria
Dana Michelle Day, Germantown
Joseph Charles Dayspring, Huber Heights
Shirley Irene DeJean, Bucyrus
Glenn Edward DeMar, Cincinnati
Anthony Jay DiDomenico, Parma
John Francis Doherty, Westlake
Daniel Edward Duval, Rayland
John Michael Fairand, Upper Arlington
Francene Lee Felcher, Akron
Suzan Ann Ferens, Toledo
Pamela Jean Fightmaster, Reynoldsburg
Jennifer Ann Flint, Columbus
Linda Marie Flowers, Brooklyn Heights
Steven Scott Gahman, Lima
Krista Louise Gallatin, Painesville
Donald Boyd Gibson, Columbus
Lynette Louise Gonzalez, Lakewood
James Roy Goodlett, Middletown
Kenneth Louis Goodwin, Columbus
Thomas Lee Graves, Columbus
Marla Dawn Graziano, Lorain
Sandra Speer Grant, Worthington
William George Heil, Northfield
Jorge Francisco Hernandez, Cleveland
Susan Joanne Himes, Columbus
Matthew Jim Hines, Columbus
April Clarice Howard, Cincinnati
Richard James Hughes, Girard
Vicki Lynn Indermill, Celina
Michele Jane Isaly, Shadyside
Noel Arnold Jackman, Bluffton
Christina Marie Jankus, South Euclid
Matthew Charles Kehlmeier, Columbus
Jeffrey L. Kight, Columbus
Eric Matthew Kill, Celina
Kathleen Jeannette Knack, Granville
Laura Lynn Kodash, Akron
Steven Alan Koesterman, Cincinnati
Christopher Thomas Kremer, Columbus
Shauna June Lambert, New Albany
Yong Lao, Kuming, P.R.C.
Stacey Lynn Lashley, South Euclid
Dolio Jo Lauener, Fredericktown
Sang Loke Lee, Seoul, South Korea
Jean Elizabeth Less, Canfield
Beth Anne Lister, Worthington
Gregory John Lowe, Poland
Christopher Andrew Luckeiselter, Colts Neck, NJ
Jacqueline Renee Lukais, Dayton
David Earl MacCartney, Sidney
Robert Graham MacQueen, Columbus
John William Maiden, Delaware
David Patrick Marion, Columbus
Jennifer Lynn Martinez, Columbus
Susan Marie Markowski, Akron
Candace Clay Martin, Houston, TX
Craig Anthony Martin, Cleveland Heights
Patrick Justin McCarthy, Youngstown
Mark Alex McConaghy, Columbus
Donna Marie McCoy, Baltimore
Lisa Marie Misko, Centerville
Paul Michael Miller, Wellington
Stephanie Sue Morgan, Zanesville
Ellen Butler Moseley, Jr., Columbus
Heather Ann Myers, Richfield
A. Kathryn Neidt, Columbus
James Edward Nobile, Worthington
James Saul O'Dell, Columbus
Paul Richard Ohl, Mansfield
Lorella Kay O'Neil, Reynoldsburg
Lisa Diane Paquette, Columbus
Tabara Lynn Payne, Worthington
Katherine A. Pence, Broadview Heights
George H. Price, Calgary, Alberta, Canada
Karen Leslie Prudo, Marion
Gary Allen Purdy, Brooklyn, NY
Trerence John Reagan, Rocky River
Usha Lakshmi Reddi, Columbus
Peter Sherwood Renshaw, Georgetown
Kenneth Jay Rhinehart, Canfield
Rita Ann Roll, Milford
Mary B. Roller, Newark
Vicki Lynn Rolls, Mansfield
Kathleen Elizabeth Romer, Fort Recovery
Lisa Ann Ross, Dublin
Michelle Lynne Roberth, Toledo
Barbara Joanna Russell, Marion
Kevin David Russell, Powell
Amy Lynn Scott, Columbus
Shelley Marie Selove, Fairfax, VA
Marilyn Christine Senter, Columbus
Cynthia Mary Shumate, Cleveland
Yvonne Montrese Smith, Columbus
Paul Steven Stark, Chestertown
 Peg M. Steigerwald, Hilliard
Apryl Renee Stewart, Lima
Bo Robert Tarpoff, Springfield
Ann Jarvis Thomas, New Philadelphia
Theresa Ann Thompson, Reynoldsburg
Karen Ann Tolbert, Cuyahoga Falls
David Allan Trcka, Hinckley
Clarke Lynn Tuxhorn, Beavercreek
Judith E. Tyler, Blaine
Richard Louis Vogel
Shari Lynn Weisel, Warren
Debra Sue Weil, Marion
Kecla Marie Wilcox, Mansfield
Glenna Lee Willman, Attica
Misty Kay Witt, Columbus
Kelly Ann Winder, Solon
Lori Ellen Wright, Englewood

Bachelor of Science

David Christopher Agle, Pepper Pike
Rashid Yahya Al-Maskary, Sultanate of Oman
Deborah Ann Barnette, Elyria
Cathy Lynn Barthelmas, Columbus
Peter Daniel Bastien, Dayton
Richard Paul Deehan, Oberlin
Daniel Joseph Frederick, Milan
Cathryn Ann Gillen, Metamora
Elizabeth Marie Heider, Columbus
Bruce Phillip Keller, Hudson
Michael K. Laudioso, Geneva
Stephen Edward Milonovich, Bridgeport
Osvaldo Francisco Morera, Gahanna
Frederick J. Nicely, Akron
Lucinda Anne Pfeifer, Marion
Maureen Andrews Renner, Bixi, MS
Mary Elizabeth Rooney, Wooster
Scott Craig Stalkamp, Lima
Stephen Michael Wood, Beavercreek

School of Journalism

Bachelor of Arts in Journalism

Betsy Ann Adelmann, McArthur
Thomas Lee Batchelder, Chagrin Falls
Cathy LuAnne Bauer, Ashland
Mark Edward Borda, Worthington
Jeffrey Scott Bostica, Grove City
Todd Marshall Boyer, Columbus
Pamela D. Cavanagh, Dublin
Paula Mary Cherniassi, Reynoldsburg
Anne Elizabeth Christian, Marion
Margaret Leigh Curran, Columbus
Deborah Susan Detwiler, Sylvania
Theresa Marie Diggs, Columbus

Bachelor of Science

Betsy Ann Adelmann, McArthur
Thomas Lee Batchelder, Chagrin Falls
Cathy LuAnne Bauer, Ashland
Mark Edward Borda, Worthington
Jeffrey Scott Bostica, Grove City
Todd Marshall Boyer, Columbus
Pamela D. Cavanagh, Dublin
Paula Mary Cherniassi, Reynoldsburg
Anne Elizabeth Christian, Marion
Margaret Leigh Curran, Columbus
Deborah Susan Detwiler, Sylvania
Theresa Marie Diggs, Columbus
David Bryan Fleming, Marysville
Gia Marie Gambatese, Cleveland
Jill Ann Gock, Kenton
John Michael Gonzalez, Natrona Heights, PA
Kelley Anne Griffith, Van Buren
Ann Marie Harco, Gahanna
Robyn Deann Henning, North Canton
Joni Lynn Herrmann, Lebanon
Christine Marie Hibler, Brecksville
Christopher Allen Howell, Columbus
Melinda Ann Hungier, Columbus
Kay Lynne Kihanowicz, Columbus
Martha Jane Kolosi, Columbus
Lisa E. Lambert, Mt. Vernon
Stuart Jay Lester, Bellmore, NY
Shelia Kay Lillegren, Streetsboro, OH
Vivica Lynn Lundblad, Wadsworth
David G. Lutz, Reynoldsburg
Beth Ellen Lynch, Murrysville, PA
Karen Leah Maginnis, Pickerington
Eileen Malone, Avon Lake
Laura Ann Martin, Mansfield
DeAnn Marie McDermott, Akron
Vaneta J. Meredith, Columbus
Timothy James Morbitzer, Columbus
Robert Brady Mosbacher, Columbus
Peggy Ann O'Keefe, Lorain
Jodi Lynn Oman, Celina
Jennifer Lynn Onesto, Columbus
Tina Marie Picone, Solon
Michelle Lynn Raines, Willoughby Hills
Sarah Ann Reinholt, Akron
Lisa Beth Rosen, Columbus
Aaron Alvin Sampson, Jr., Fairborn
Robert Martin Scevi, Cleveland
Teresa Sue Shall, Toledo
Curtis Eugene Shepherd, Lima
Stephanie Sue Snider, Newark
Gloria Elizabeth Spencer, Columbus
Carol Jean Sui, Columbus
Gregory Robert Trauthwein, Fairfield
Julia Ellen Vinson, Minerva
Mathew Joseph Wagner, Lima
Brian Lee Wallace, Columbus
John Mark Whitson, Findlay
Todd Daniel Wilkerson, Dayton
Elizabeth Lynn Yumang, Warren
Marla Sue Mines, Beaver Creek
Joan Elizabeth Riepenhoff, Ottawa
David Lee Robinson, Bloomington
Kari Daniel Roell, Cleves
Robert Doyle Scott, Bloomington
Susan Marie Specht, Dalton
Curtis Edward Stearns, Columbus
Jonathan Joel Stouenburg, Westerville
Jeffrey Alan Trautwein, Upper Sandusky
Chris Duane Turner, Harrod
Peggy Sue Vaughn, Newark
Madonna Jo Woeckenberg, Lebanon
Nanette Louise Wolcott, Perrysville
Lance Paul Yost, Columbus

Bacheelor of Science in Food Science
Yoshhiro Lozano, Brooklyn
Lisa Marie Sabol, Rochester Hills, MI

Bacheelor of Science in Nutrition
Donna Marie Dougher, Mentor

School of Natural Resources
Bacheelor of Science in Natural Resources
Kenneth Stanley Duvall, Kettering
Gerald Lee Fetter, Jr., Copley, PA
Todd Allen Hurn, Mansfield
Douglas Alan Jeanneret, Wapakoneta
Douglas Denaie Jenkins, Newark
David H. McKay, Westerville
Timothy Michael Metzger, Delphos
John Patrick Tholen, Northport, NY

College of Agriculture
Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture
Gladys Marie Beaschler, Columbus
James Richard Bluck, Linton, IN
Paul H. Detwiler, Seville
Frank Joseph Foster, East Palestine
Karen E. Garman, Kenton
William Austin Gault, Ashland
William Scott Grimm, Bergholz
Eric Wayne Johnson, Galena
Bryan Keith Kelley, Hamilton
Thomas Alan Kelim, Leetonia
Timothy Edward Lagucki, Columbus

Agricultural Technical Institute - Wooster
Associate in Applied Science
Randall Keith Agler, Ohio City
Renee Denise Balderson, Columbus
Susan Marie Cawley, Akron
Darla Maureen Cornell, Toledo
Georgia Theresa Enright, Englestown, NJ
Janelle Ann Firestone, Lima
Leslie Ann Gueso, Toledo
Barbara Jo Haddad, Toledo
Linda Rose Jersak, Wooster
Bryan Scott Miller, Greensburg
Diane Marie Rossman, Euclid
Lesley Anne Taylor, Ipswich, MA

College of Business
Dean: H. Justin Davidson

Bachelor of Science in Business Administration
Sherry Lynn Alter, Centerville
Gretchen Lynn Amerman, Peoria, IL
Robert Boyd Anderson, Warren
Aralan Anwar, Lahore, Pakistan
Robert Harry Back, Noblesville, IN
James Robert Balk, Columbus
Karen Elizabeth Babler, Newbury
Stacey Bart, Troy
Paul Gerard Bartels, Cincinnati
Saleh M. Basamh, Taif, Saudi Arabia
Darrin Todd Bean, Westerville
Patti Sue Beckett, Ottawa
Cynthia A. Bereisman, Delphos
Mark Andrew Berens, Columbus
John Joseph Bertone, Painesville
James Thomas Bogere, Reynoldsburg
James Joseph Bolger, Steubenville
Renée Leigh Brausch, Medina
Denise Marie Brennan, Salip, NY
James Wesley Bridges, Silver Spring, MD
Donald Eugene Brooker, Champion
Robert Lawrence Brown, Columbus
Daniel Kenneth Bruinswine, Coldwater
Keith Edward Buzdzynski, Toledo
Richard Michael Bump, Cleveland
Robert Todd Buzan, Fairborn
Jeanette M. Burkart, Beaumont, TX
Richard Lee Bussett, Carroll
Cathy Sue Camper, Lima
Kelly Sue Carr, Kokomo, IN
Julia M. Caron, Massilllon
Kuang-Iang Chang, Columbus
Varn Kumar Chawla, Columbus
Lennie C. Chism, Canton
Anne Elizabeth Christian, Marion
Andy S. Chung, Cleveland
Robert Leslie Cochran, Beavercreek
Amy Lynn Cohen, Beachwood
David Alan Cromleigh, Akron
Jude Thaddeus Cuddy, Columbus
Douglas Lewis Culp, Columbus
Dominic Andrew D'Emilio, Walbridge
Michael Kelly Davidson, Birmingham
Brenda Joyce Davis, Circleville
Elizabeth Ann Deibel, Columbus
Deborah Ann Deioma, Chagrin Falls
Paul Anthony Dembowski, Suffield
Deni Dewi, Medan, Indonesia
Randy Lee Devitt, Delaware
Yvonne Milesich Dickman, Columbus
Cynthia Lynelle Doll, Columbus
Nimesh Navinchandra Doshi, Ipoh, Perak
Malaysia
Lori Lee Doyt, Spencerville
Tracey Lee Doula, Toronto
Wayne Bryant Douglas, Columbus
Marjorie Phillis Duncan, Grove City
Jeffrey John Duthing, North Olmsted
Steven Harold Earley, Groton
Shelley Sue Eaton, Grove City
Joseph Engelhart, St. Marys
John R. Woods, Mentor
Barry Jon Yaillen, Columbus
Robert Arnon Yanoff, Powell
Houston Clayton Young, Elyria
Jill Elise Zager, Columbus
William Matthew Zuga, Warren.

**College of Education**

Dean: Donald P. Anderson

**Bachelor of Science in Education**

Taalib Samadani Abdul-Malik, St. Louis, MO
Rory Martin Anderson, Bellevue
Pamela Ann Armentrout, Piqua
Kristina Kay Barnett, Rossford
Susan Marie Biedenharn, Elida
Christine Ann Binder, Alexandria, VA
Alexander Charles Bisch, Columbus
Karen Lynn Bishop, Lima
Michelle Bocchard, Chillicothe
Lynne Katherine Bonno, Warren
Dwight L. Briner, Circleville
Cesar Pedroso Chaves, Lorain
Mark Daniel Coleman, Fremont
Eugene Paul Cordonnier, Russia
Christine Ann Darfus, Lancaster
Steve F. Darvey, Marion
Pamela Maria Depaso, Columbus
Marcia Anne Dillingen, Ottawa
Elaine Marie Dunn, New Philadelphia
Jeffrey Thomas Eickley, Kettering
Kelly Anne Egan, Mt. Liberty
Elaine Nancy Farstad, Columbus
Susan Elizabeth Figatakis, Akron
Alan Edward Frank, Beavercreek
Amy Elizabeth Frankenberg, Columbus
Anne Marie Fuchik, Columbus
Kenneth Jay Furney, Thornville
Rochelle Marie Gracilla, Warren
Jennifer Sue Groves, Columbus
Bobbi Lynn Hamann, Columbus
Jeffery Alan Harris, Defiance
Kathy Lynn Haynes, Sunbury
Teressa Ann Heibertshausen, Attica
Kathleen Marie Herforth, Sylvania
Mark Allen Hill, Paulding
Lawrence W. Hutchison, Powell
Julia Redrick Indalecio, Dayton
Jennifer Muskoff Ishida, Marion
Celia Rose Javadi, Camanche, IA
Lon Beth Kerx, Toledo
Melanie Jean Kendell, Kenton
Polly Alice Larkin, Kettering
James Victor Leavitt, Jr., Thornville
Patrice Anne Leonbach, Lima
Kathleen Anne Lora, Brunswick
Jill Christine Lynch, Lancaster
Melissa Marie MacDonald, Spencerville
Christine Marie Mayhan, Westford, MA
Michael James McAdams, Columbus
Rhonda Michelle McGuire, Columbus
Kristina Frances McKee, Columbus
Leslie Ann Merza, Nashport
Paula Leslie Metzger, Fort Jennings

Tina Renee Michael, Fremont
Roscoe William Mickle, Jr., Cincinnati
Kevin Douglas Miller, Beavercreek
Sharon Lynn Miller, Galena
Susan Anne Morehead, Akron
Donna Lorraine Morley, Plain City
Susan Renee Morton, Galena
Lisa Ann Musto, Lima
Wayne Howard Palmer, Columbus
Diana Lee Parini, Newark
Penny Sue Pescosolido, Lima
Susan Kay Reese, Wapakoneta
Robert Arnold Reith, Jr., Shelby
Michelle Marie Riley, Hubbard
Teresa Ann Roby, Forest Park
Kristin Ann Ross, Akron
Eric Paul Rugo, Middletown
Carl P. Rust, Lima
Diana Lynn Sanders, Lima
Mark David Scanton, Columbus
Deborah Jean Sealscott, Van Wert
Stacey Lynn Sechrist, Bellville
Renee Christine Seivaggio, Egan, MN
Andrew F. Skove, Long Branch, NJ
Jane Elizabeth Slifka, Barberton
Andrew John Smith, West Liberty
Cora Jeanne Smith, Columbus
Goldie Spencer, Mansfield
David J. Spurlock, Jr., Reynoldsburg
Jeffrey Lee Stephens, Findlay
Frances E. Sweetchy, Grove City
Sequoa Marette Temple, Garfield Heights

Robert Hugh Terrill III, Ridgeway
Kimberly Ware Watson, Columbus
Brian Paige Welch, Columbus
Anne Catherine Williard, Solon
Brenda Almira Winters, Mansfield
Kathy Ann Wolflinger, Mansfield
Cynthia Kay Wood, Morral
Lena Kay Woodward, Crookston
Jennifer Jane Wren, Bellefontaine
James Andrew Zimmerman, Springfield
Susanne Christine Zupanovic, Euclid

Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

**College of Engineering**

Dean: Donald D. Glower

**Bachelor of Science in Aeronautical and Astronautical Engineering**

John Charles Deems, New Philadelphia
Daroush Esmail Rizi, Esfahan, Iran
Vasiliki Horatous, Thessaloniki, Greece
Jon Andrew Sims, Marion
Michael Lewis Spradling, Worthington

Bachelor of Science in Aviation

Ridwane Eugene Bowerman, Republic
Matthew Thomas Brown, Broomall, PA
Reid Don Fornaro, Old Forge, PA
James Elwood Guilek, Keyport, NJ
Thomas Carey Mejias, Newark
John Albert Pestovic, Parma

Bachelor of Science in Ceramic Engineering

Lawrence D. Ellis, Westerville
Steve Gerald Kutney, Elyria

Bachelor of Science in Chemical Engineering

Mohammed Saud Alhindal, Kuwait, Kuwait
Bryan Christopher Costa, Little Rock, AR
Joseph Francis Ennis, Columbus
Rahim Taawik Karadash, Amman, Jordan
Michael Francis Morgan, Westerville
Dimtral Boris Nastoff, Massillon
Bhavesh Patel, Parma

Bachelor of Science in Civil Engineering

Trent Kerwin Branson, Chillicothe
Glen Yoder, Plain City

Bachelor of Science in Computer and Information Science

Anup Kumar Ahtulwalia, New Delhi, India
David Deon Ellis, Cincinnati
Christopher Lee Hiebak, Eastlake
Chiu Kwan Hui, Jakarta, Indonesia
Scott David Kunz, Delphos
Michael Zeh Leffler, Sandusky
Timothy Max Martin, Lancaster
James Edward Price, Upper Arlington
Gregory Hansen Rolle, Nassau, Bahamas
Randall Harris Rosenthal, Youngstown
Shubhra Sharma, Dublin
Umesh Thakkar, Calcutta, India
Jeffrey Paul Tiefenbach, Mansfield

Bachelor of Science in Electrical Engineering

Brad Arthur Albert, Wintersville
Michael Scott Bauer, Richfield
Gregory A. Bocheit, Monroe
Bryan Jeffery Coates, Lorain
Todd Anthony Herrmann, Granville
Frode Larsen, Youngstown
School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Cynthia Marie Anderson, Waynesville
Gail Yvette Beaudoin, Chippewa, MI
Denise Marie Berg, La Quinta, CA
Sheila Ann Bracken, Worthington
Mary Elizabeth Dougherty, Columbus
Kathleen Marie Eby, Chagrin Falls
Andrew Glenn Hager, Dayton
Janelle Hidig, Brookfield
Anna Mae Lang-Clark, Worthington
Mary Elizabeth Dougherty, Columbus
Robert Allen Rehkop, Columbus
Ronda Leeann Rucker, Trotwood
Joseph Francis Schweitzer, Columbus
Becky J. Springsteen, Burbank
Kammi Lee Tarr, Weirton, WV
Mary Elizabeth Winters, Plymouth, MI
Betty Irene Woodward, Bloomington
Maizy Lynn Yellen, Urbana

Certificate of Nurse Anesthetist

Tara Lynn Chinn, Columbus
B.S.Nurs. (Bowling Green State University)
B.S. (Muskingum College)
Kimberly Frederick, Columbus
B.S. (Carlow College)
Edward John Weisenberger, Tiffin
B.S. Nat Res., B.S. Nats.
Carol Marie Hunter, Columbus
Mary Martha Joyce, Strongsville
Kathleen Anne Kelly, Kettering
Pauline King, Toledo
Diane Lynn Koenig, Wapakoneta
Anne Marie Kuns, Lorain
Lisa Ann Lucius, Tiffin
Cynthia Rhee McKay, Baltimore, MD
Deborah Knecht McQuiniff, Washington Court House
Rebecca Lynn Price Miller, Galion
Deborah Ann Mitsch, Perrysville
Janet Marie Nippert, Columbus
Lisa Maria Ramos, Milford
Karen Anne Ryan, Sagamore Hills
Kathryn Louise Taylor, Gahanna
Sherilin Swain Tichenor, Columbus
Janet Louise Wakefield, Columbus
Wendy Sue Wilkin, Granville

College of Pharmacy
Dean: John M. Cassady

Doctor of Pharmacy
Thomas Paul Bechtel, Columbus

Bachelor of Science in Pharmacy
Cindy Seunghee Baik, Columbus
Linette K. Berger, Cincinnati
Eric Erman Bright, Norwalk
Anthony John Buchta, Cleveland
Debra Sue Chaffin, Marysville
Michael Sae-Yong Choe, Cleveland
Dennis Eugene Cockerill, Washington Court House
Roderick Keith Crenshaw, Warren
Steven Howard Dolin, Toledo
Wendy Kay Erdos, Peninsula
Jeffrey Jay Garbe, Columbus
Kylie Francis Higgins, Amherst
Stephen Jay Kingery, Washington Court House
Sally Jo Lane, Columbus
Deborah Yvonne Marsh, Columbus
Leslie Ann Mauersberg, Cortland
Peter Anthony Napolitano, Hudson, FL
Jodi Beth Orrison, Belmont
Caroline Anne Rayner, Columbus
Vernon Daniel Reynolds, Lorain
Larry Devonne Shaffer, Jr., Welisville
Patrick Gerard Smith, Dayton
Jill Leslie Stanley, Wadsworth
Melinda Kay Talbert, Reynoldsburg
Francis David Walters, Euclid
Sharon Anne Wilinski, Cleveland

College of Social Work
Dean: Richard E. Boettcher

Bachelor of Science in Social Work
Bradley Virgil Forment, Chardon
Mary Susan Kimble, Brecksville

Graduates with Honors
Criteria for graduating with honors are as follows:
Summa Cum Laude designates those graduating in the top 3% of the class.
Cum Laude designates those graduating in the top 10% of the class.
With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.
With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.
With University Honors designates those graduating with curricular distinction and dedication to high educational goals.

Cum Laude with Distinction in Family Relations and Human Development and with University Honors
Kimberly Ann Holle

Cum Laude with Distinction in Family Relations and Human Development
Patricia Brown Douglas
Cheryl Lynn Mounts

Cum Laude with Distinction in Psychology
Richard Paul DeShon

Cum Laude with Honors in the Liberal Arts
Deborah Dolores Doehr
Roshan Sara Koozekanani

Cum Laude with University Honors
Michael Scott Bauer
Barbara Jeanne Combs
David Earl MacCartney
Craig Anthony Martin
Peg M. Steigerwald

With Distinction in Elementary Education
Carl P. Rust

With Distinction in Family Resource Management
Beth Barbara Perko

With Distinction in Spanish Education
Jill Christine Lynch

With Honors in the Liberal Arts
Michael Edward Madison
Heather Ann Myers
Eric John Olson
Rita Ann Roll

With University Honors
Denise Marie Brennan
Selika Marianne Ducksworth
Donald Gene Strinka
Cum Laude

Robert Harry Back
Deborah Ann Barnette
Cathy LuAnne Bauer
Trent Kerwin Bronson
Eugene Paul Cordonnier
John Charles Deems
Paul Anthony Demboski
Cynthia Lynelie Doll
Lori Lee Doy
Anne Marie Fuchik
Mark A. Girman
Michael David Guatasci
Kyle Francis Higgins
Melanie Jean Kindell
Frode Larsen
Lisa Ann May
Paula Leslie Metzger
Lora Lee Millar
Wayne Howard Palmer
Tanya Doreen Pavick
Jason Thomas Poulton
Bryan Karl Prosek
Caroline Anne Rayner
Mary Beth Rejent
Edythe Larrie Ross
Lisa Ann Ross
Diane Marie Rossmann
Karen Anne Ryan
Guy Richard Scarozza
Deborah Jean Sealscott
Scott Craig Stallkamp
Paul Steven Stark
Yin Fen Tan
Lesley Anne Taylor
Theresa Ann Thompson
Yvonne E. Walters
Lisa Anne Wheeler
Kathy Ann Welfinger
Jill Elise Zager
THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-FOURTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, September 2, 1988

The Board of Trustees met at its regular monthly meeting on Friday, September 2, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.

* * *

89
September 1 and 2, 1988 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on September 1, 1988, at 6:35 p.m. He requested the Secretary to call the roll.


The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions as follows: faculty/staff appointments and reappointments, resignations and terminations, leaves of absence without salary, professional improvement leaves, promotions/tenure, emeritus titles, and medical staff appointments/reappointments.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser.

--0--

Mr. Immke reconvened the meeting on September 2, 1988, at 10:10 a.m.


--0--

Mr. Immke:

Mr. Harry E. Smail will address the Board regarding the use of the University's land and related zoning matters on North Star Road.

Mr. Harry E. Smail:

Thank you, Dr. Jennings and Members of the Board of Trustees. I come here this morning to bring to your immediate attention an issue of immense concern to the residents bordering the University on the north side along North Star Road and to the north along Sunny Hill Drive and along the west side of central campus. That is the OSU zoning application that has been refiled with the City of Columbus for the rezoning of the entire Central Campus into a University Research Park designation. I have previously provided an open letter on this subject which was dated July 11, 1988, and Mr. Scott informed me that he provided an earlier copy to all of you.

I come here, myself, as an alumni. I graduated from this University with a degree in City and Regional Planning. I am a professional planner and an area resident for the past 21 years, as well as being an adjacent homeowner. I come here representing only myself today. There is a group that has been formed in opposition to it; however, I am not a spokesman for them. I am only speaking for myself as a professional planner and as an adjacent landowner.

Specifically, I am not opposed to the future development of OSU lands, if that development is based on specific plans. What I am really concerned about are the circumstances and details
surrounding the zoning application. Specifically, there are two items of concern — a seeming unwillingness to provide full public disclosure of the development plans for the 600-700 acres of open space land located west of the Olentangy River. Moreover, I come with an additional concern today and that is the public reaction to date to the OSU actions that have been taken to date. I think the stage is being set for a long, costly, and perhaps even a legal battle before this is all over. One which will essentially challenge the integrity of the University before the City and perhaps into the courts. I think, as a professional, that the timely application of some sound land use planning principles can help alleviate this matter. And that is why I am addressing the Board today. The Board, as I understand it, has the ultimate decision regarding the real estate developments concerning that land.

Just as a brief history, and again, I have had my remarks prepared and placed in front of you today for your review later. On March 21, 1988, OSU filed a rezoning application. On May 12, at a hearing before the Development Commission the rezoning request was tabled to provide an opportunity for the University to meet with concerned citizens. Such a meeting was held on May 31 by Mr. Jean Hansford, the OSU Campus Planner. On August 12, 1988, the University subsequently filed a planning overlay as a means of trying to preserve compatibility with adjacent land uses outside that zoning District. Subsequently, at an August 11, 1988, meeting of the Development Commission, after a 3 1/2 hour discussion the Development Commission essentially said that the University should use its vast resources to come up with a more 'creative' rezoning proposal more agreeable to area residents and they tabled it. Also, there is a second application that has been filed on behalf of the Fair Citizens to rezone the same land with different standards.

I feel the real issue at hand is the lack of specific standards detailing what, when, where, and how such University research park development will occur. We know there has been much discussion about this over the last 4 or 5 years. The University has essentially stated in a letter dated May 31 from Vice President Jackson, that "The Ohio State University will not adopt specific plans (my emphasis) for the redevelopment of the Central Campus of the University in order to retain the desired flexibility which is required to insure that new potential development is of the highest standards." The specific concern that I have is that we are dealing with plans, not standards. Some of you have a real estate background and as you know from the development prospective, you have to file several plans, overlays and things like that -- specific details. What we are trying to do here, I feel -- without success, because we have nothing on which to base it -- what we are trying to say is -- "well, we will develop it to these standards" -- the standards have only been used to take into account site specific conditions, not as a means to initiate development.

Out of curiosity, in June, I obtained, from the OSU Office of
September 1 and 2, 1988 meeting, Board of Trustees

Mr. Smail (contd)

Campus Planning and Space Utilization, a copy of the "Master" plan of OSU. I discovered that the "current" Master Plan was prepared in 1961 and was last amended by the OSU Board of Trustees on April 8, 1965, which is about 23 years ago. And, the latest map was prepared on July 9, 1976, about 12 years ago. I have a copy here if someone would care to take a look at it after the presentation.

Although I posed some questions in my July 11 letter, I feel that these questions have not been answered and I will just briefly repeat them here for you this morning. There are five, specifically:

1) What are the University's specific intentions for the use of the open space land located west of the Olentangy River and; what is the basis for these plans?

2) What will be the traffic, noise and other environmental impacts to adjacent neighborhoods associated with the development and use of these lands?

3) What are the public infrastructure (water, sewer, streets, etc.) requirements necessary to support such development and if these lands are to be leased to private companies, will the lands be put on the tax roles as industrial parcels? Is the University willing to pay Developer Impact Fees to pay for any infrastructures needed?

4) Will the University place deed restrictions on its land to prohibit any activities involving radioactive, infectious, chemical, biological, or hazardous materials and this is a major concern to landowners?

5) Lastly, and more importantly, under the zoning code the University -- if granted this rezoning -- can determine what reasonable standards will be used for future development. And I question what administrative mechanism does or will the University have in place to impose and enforce any discretionary restrictions on lands which it proposes to lease to the various tenants? Specifically, that is under Chapter 3374 of the City Code.

Therefore, given that as a background, I appeal to you this morning to:

1) Direct the University officials involved in this effort to provide full disclosure to both the City of Columbus and to the landowners all existing materials pertaining to the proposed University Research Park and its specific plans for the use of the University lands located west of the Olentangy River. If no such plans really exist, as we have been told, then the University at a minimum should provide us some basis of the rationale for the standards that they are proposing. For example, what is the rationale for a 150 foot setback along North Star Road, but only a 50 foot
setback along the Sunny Hill Drive back yards. What is the difference? What is the basis for it?

2) That the OSU Board of Trustees act to require the University Office of Campus Planning and Space Utilization, with assistance from the Department of City & Regional Planning, to timely complete a comprehensive campus plan and establish an ongoing planning process. It is the nature of good planning to have a plan on which to base future decisions.

3) Establish a meaningful public input/involvement program to continue interactions with the adjacent landowners.

4) Lastly, that the University does not enter into any long-term lease of these undeveloped lands until a comprehensive plan has been prepared and rezoning, if necessary, has been obtained.

In closing, these questions are going to require specific answers so that an informed, well-thought-out, documentable decision can be reached regarding this highly controversial rezoning application. There are many other issues that are associated with this which I do not have time to explore today, such as the constitutionality of this particular zoning application. I am sure that you are going to find that the surrounding residents are going to go to the extreme necessary to protect neighborhood characteristics and property values. And these issues will not go away. I encourage you, if you can, to attend the next hearing before the Development Commission scheduled for September 22.

Thank you for your time this morning. I will be happy to answer any questions today or later, in the evenings or on Saturdays, at my convenience, and your response is anxiously awaited by me and several other people, a couple of which have come this morning to be with me. Thank you.

Mr. Immke:

Any questions of Mr. Smail?

President Jennings:

Thank you, Harry. Certainly we are concerned with the environment that we live in. I think it is interesting that your presentation comes only moments after a development plan was presented to this Board for a piece of land just east of Route 315, where the water tower is now. I think that the community would find this compatible. This University has had a long history of developing land in a means that is compatible with the surrounding neighborhoods, whether it is on High Street or North Star. I think you would find that the plans presented by our Vice President of Agriculture were very compatible with neighborhood activities.
President Jennings (contd)

There is no public disclosure because there is no plan. I think the reason there is the 1961 plan sitting there, is we found long ago, that the institutional changes that take place are extraordinary difficult to predict. That institutional plan that is now 25-30 years old has not been updated because, of course, that calls for a massive number of buildings on what we now call the West Campus to accommodate an institution of about 100,000 students. If that plan would have been put in to effect, there would be literally hundreds of buildings sitting on that West Campus by now. We found that planning for that type of activity was a useless exercise and did not accommodate the institutional needs.

I would also take exception to your comment of the "vast resources of Ohio State." We are a large institution, but we do not have money to spend in a wasteful manner that is implied by the statement of "vast resources."

Also, particularly with our agriculture vice president here, I would also take exception to the communities comment that this is at this stage undeveloped land and useless land. Our faculty in the College of Agriculture finds that land is extraordinarily valuable for their research purposes. Anything we do with that land over there, the first thing we always ask for is the faculty's input as to how they will accommodate their research activities if that land is used for something else.

The institution, I think, has the expertise and the commitment to be a good neighbor, but we also need to recognize the institutional needs. I can assure you that there are not going to be any 100 story high rises over there.

Mr. Smail:

In response to a couple of the issues you brought up -- first, the words that the University uses "vast resources," that is the Development Commission, those aren't my words. Secondly, I called it "open spaced land" -- generally for agricultural uses, it is open spaced land. I did not want to infer in any way that it is wasted land or not being used productively for agricultural purposes. Third, the basic concern is that here we have two opposing forces essentially saying that this is what the standard should be, that is what the standards should be. Both are right! Because unless you try to apply those standards to a specific plan, they don't make sense. We are dealing with the abstract versus reality here. Standards can make a lot of sense for certain developments, but until you apply them to a specific parcel, detailing how, when and where that development will occur -- we have a plan first and then the standards are used as a way to mediate adverse impacts. So, that is the essence of what I want to bring to your attention today.

President Jennings:

I appreciate your interest not only in the community, but in Ohio State. I don't think there is any question that you come
President Jennings (contd)

to us with good will, that your interests are concurrent with ours in this activity. All I am suggesting is that plans set forth haven't worked very well in times gone by.

Mr. Smail:

Thank you, very much.

Mr. Immke:

Thank you. Mr. President, will you present your agenda?

---0---

NAMING OF BUILDING

Resolution No. 89-19

Synopsis: A new name is proposed for the building on the Columbus campus at 376 West 10th Avenue, currently known as the "Health Sciences Library."

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus campus at 376 West 10th Avenue is currently described as the Health Sciences Library; and

WHEREAS Dr. John A. Prior began his career as a faculty member in the College of Medicine in 1946, served as Assistant Dean of the College from 1961 to 1963, Associate Dean from 1963 to 1970, and Dean from 1970 to 1972 when he returned to the faculty of the Department of Medicine until his retirement in 1981 and has since been Professor Emeritus; and

WHEREAS during Dr. Prior's tenure at Ohio State, his leadership, dedication and energies helped make the Health Sciences Library possible; and

WHEREAS he has devoted significant time and energy in many innovative ways to the University and the College of Medicine; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned building at 376 West 10th Avenue be named in honor of John A. Prior:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 376 West 10th Avenue shall bear the name "John A. Prior Health Sciences Library."

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---
Synopsis: A new name is proposed for the building on the Lima campus at 4285 Campus Drive, currently known as the "Student Activities Building."

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Lima campus at 4285 Campus Drive is currently described as the Student Activities Building; and

WHEREAS Dr. J. McLean Reed joined The Ohio State University at Lima in 1962 and served as director of that campus until 1970; and

WHEREAS Dr. Reed spends two days a week on the Lima campus where he continues to be active and supportive of their programs; and

WHEREAS Dr. Reed has been an educator for 70 years and continues to be held in high esteem by his colleagues, students, alumni and members of the community; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned building at 4285 Campus Drive be named in honor of J. McLean Reed:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 4285 Campus Drive on the Lima Campus shall bear the name "J. McLean Reed Student Activities Building."

Upon motion of Ms. Casto, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

UNIVERSITY HOSPITALS BOARD APPOINTMENTS

Synopsis: Confirmation and approval of nominees to the University Hospitals Board is proposed.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

WHEREAS the terms of two of the members selected from the general public expired on April 30, 1987:

NOW THEREFORE
BE IT RESOLVED, That the following nominees be approved as general public members of the University Hospitals Board effective September 1, 1988, for a term ending June 30, 1991:

Judy Barker
William M. Bennett

Upon motion of Mr. Berry, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

PERSONNEL ACTIONS
Resolution No. 89-22

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the July 8, 1988 meeting of the Board, including the following Concurrent Appointment, Appointments, Appointment of Chairpersons of Academic Faculty, Departments, and Divisions and Directors of Center and School, Reappointment of Chairpersons of Departments, Leaves of Absence Without Salary, Leave of Absence Without Salary--Continuation, Professional Improvement Leaves, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved July 28, 1988, by the Hospitals Board be ratified.

Concurrent Appointment

Name: JOHN O. RIEDL
Title: Coordinating Dean for Regional Campuses
Office: Academic Affairs
Effective Period: July 1, 1988 - June 30, 1990
Salary: $83,560.00
Present Position: Dean/Director, Mansfield Campus (no change)

Appointments

Name: ROBERT J. CODY
Title: Professor (James Hay and Ruth Jansson Wilson Professorship in Cardiology)
Department/Division: Internal Medicine/Cardiology
Effective: July 1, 1988
Salary: $80,280.00
Present Position: Associate Professor, The New York Hospital - Cornell University Medical Center, New York, NY

Name: DUANE D. MILLER
Title: Professor (Charles H. Kimberly Professorship in Pharmacy)
College: Pharmacy
Effective: July 1, 1988
Salary: $83,160.00
Present Position: Chairperson, Division of Medicinal Chemistry and Pharmacognosy and Professor
September 1 and 2, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointments (contd)

Name: DEV S. PATHAK
Title: Professor (Merrell Dow Professorship in Pharmaceutical Administration)
College: Pharmacy
Effective: September 1, 1988
Salary: $89,400.00
Present Position: Chairperson, Division of Pharmaceutical Administration and Professor

Appointment of Chairpersons of Academic Faculty, Departments, and Divisions and Directors of Center and School

July 1, 1988 through December 31, 1988
Melton Center for Jewish Studies
Jeremy Cohen*

July 1, 1988 through June 30, 1989
Botany
Tod F. Stuessy*
Horticulture
Steven M. Still*
School of Natural Resources
John F. Disinger*

July 1, 1988 through June 30, 1991
Division of Pharmaceutical Administration
Dev S. Pathak

July 1, 1988 through June 30, 1992
Statistics
Prem K. Goel

October 1, 1988 through September 30, 1989
Romance Languages and Literatures
Josaphat Kubayanda*

October 1, 1988 through June 30, 1992
Materials Science and Engineering
George R. St. Pierre

October 1, 1988 through September 30, 1992
Academic Faculty of Accounting and Management Information Systems
William F. Bentz
Division of Speech and Hearing Science
Lida G. Wall

Reappointment of Chairpersons of Departments

July 1, 1988 through June 30, 1989
Veterinary Preventive Medicine
Erwin M. Kohler*

*Acting Chair/Director
September 1 and 2, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments (contd)

July 1, 1988 through June 30, 1992

Engineering Graphics

John T. Demel

Leaves of Absence Without Salary

LOIS ANN ROSOW, Assistant Professor, School of Music, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to complete a portion of the research for her edition of Lully's Armide.

PATRICIA C. AKINYEYE, Instructor, University Libraries, effective August 29, 1988, through September 11, 1988, for medical reasons.

PETER M. LEOER, Instructor, University Libraries, effective July 1, 1988, through August 28, 1988, to attend the 1988 Vajradhatu Seminary (Buddhist study and practice program.)

Leave of Absence Without Salary--Continuation

RICHARD W. BURROWS, Associate Professor, Department of Dance, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to "build on the activities" that developed through his Spring Quarter 1988 leave to fulfill personal and professional development plans.

Professional Improvement Leaves

LAWRENCE HERMAN, Professor, College of Law, effective Spring Semester 1989.

TIMOTHY S. JOST, Professor, College of Law, effective Spring Semester 1989.

THOMAS W. MILBURN, Professor, Mershon Center, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1989.

ABRAMO C. OTTOLENGHI, Professor, Department of Medical Microbiology and Immunology, effective January 3, 1989, through June 9, 1989.

L. MARK BERLINER, Associate Professor, Department of Statistics, effective Winter Quarter and Spring Quarter 1989.

RALPH R. HUNT, Associate Professor, Department of English (Mansfield Campus), effective Winter Quarter and Spring Quarter 1989.

WANSOO T. RHEE, Associate Professor, Academic Faculty of Management Sciences, effective Winter Quarter and Spring Quarter 1989.

Promotions and Tenure

College of Humanities

MICHAEL L. GEIS, Department of Linguistics, promotion to Professor, effective October 1, 1988.
September 1 and 2, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Humanities (contd)

KAREN SUE JEWELL, Department of Black Studies, tenure, change date from October 1, 1988, to October 1, 1989.

Emeritus Titles

HAROLD D. BAUMAN, College of Agriculture - Administration, with the title Assistant Dean Emeritus, effective September 1, 1988.

TIMOTHY R. DONOHUE, Department of Physics, with the title Professor Emeritus, effective August 1, 1988.

FRANCILLE M. FIREBAUGH, Department of Family Resource Management, with the title Professor Emeritus, effective August 1, 1988.

JOHN P. HIRTH, Department of Materials Science and Engineering, with the title Professor Emeritus, effective September 1, 1988.

DON M. HOSIER, Department of Pediatrics, with the title Professor Emeritus, effective July 1, 1988.

JOHN B. HOUGH, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective September 1, 1988.

FERN E. HUNT, Department of Family Resource Management, with the title Professor Emeritus, effective September 1, 1988.

JAMES E. KERBER, Department of Educational Theory and Practice, with the title Professor Emeritus, effective September 1, 1988.

DEAN C. MERCHANT, Department of Geodetic Science and Surveying, with the title Professor Emeritus, effective September 1, 1988.

ROBERT E. NOTARI, College of Pharmacy, with the title Professor Emeritus, effective October 1, 1988.

ROBERT J. STULL, Department of Art, with the title Professor Emeritus, effective July 1, 1988.

VIRGINIA M. VIVIAN, Department of Human Nutrition and Food Management, with the title Professor Emeritus, effective July 1, 1988.

MILES K. MCELRATH, Department of East Asian Languages and Literatures, change from Professor Emeritus to Associate Professor Emeritus, effective July 1, 1987.

RICHARD L. TAYLOR, Department of Aviation, with the title Associate Professor Emeritus, effective July 1, 1988.

JOHN W. FERENCE, Cooperative Extension Service, with the title Assistant Professor Emeritus, change effective date from July 1, 1988, to January 1, 1989.
RESOLUTIONS IN MEMORIAM

Resolution No. 89-23

Synopsis: Resolutions honoring the service of five of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Kenneth M. Abbott

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 21, 1988, of Kenneth M. Abbott, Professor Emeritus in the Department of Classics.

Kenneth M. Abbott was born May 3, 1906, in Lincoln, Nebraska. He received a bachelor's degree from Harvard College in 1928; a master's degree from the University of Nebraska in 1931; and a doctorate from the University of Illinois in 1934. After beginning his career as an Instructor at The Ohio State University in 1934, he became an Assistant Professor in 1938, an Associate Professor in 1944, and a full Professor in 1946. Upon his retirement in 1976, he was given the title Professor Emeritus.

Professor Abbott specialized in textual criticism, Cicero, and Latin lexicography. He published, in collaboration with Professors W. A. Oldfather and H. V. Canter, the Index Apuleianus (1934), Index Verborum Ciceronis Epistolarum (1938), Index Verborum in Ciceronis Rhetorica necnon Incerti Auctoria Libros ad Herennium (1964). His major articles included studies in the Latin accent and later Latin verse. His scholarship gained him an international reputation in the field of Latin lexicography.

Professor Abbott served as Director of Graduate Studies and as the principal adviser to many candidates for master and doctorate degrees in the Department of Classics. He initiated courses in classical mythology in the Classics Department and in comparative literature in the College of Humanities.

Many honors came to Kenneth M. Abbott. The Ohio Classical Conference, which he served as president, granted him a Latin ovatio (award of merit) in 1975. In that year, Ohio State's Center for Medieval and Renaissance Studies held its annual conference in his honor on the theme — "The Classical Tradition in the Middle Ages." He held visiting professorships at the University of Illinois, the State University of Iowa, and the University of Waterloo, Canada. He held memberships in learned societies in the field of linguistics and classical philology. He was a member of
RESOLUTIONS IN MEMORIAM (contd)

Kenneth M. Abbott (contd)

Phi Beta Kappa, was a Howald Fellow, a Fulbright Fellow (1959-60 in Rome) and a Fellow of the American Council of Learned Societies (1962 in London). Kenneth Morgan Abbott will be remembered as an outstanding teacher and scholar who was fully dedicated to excellence in both.

On behalf of the University, the Board of Trustees expresses its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family of Kenneth M. Abbott as an expression of the Board's heartfelt sympathy.

Jack Hine

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 6, 1988, of Jack Hine, Professor Emeritus in the Department of Chemistry.

Dr. Hine was born on July 2, 1923, in Coronado, California. He received his B.S. degree in Chemistry from the University of Arkansas in 1943 and his Ph.D. degree in organic chemistry from the University of Illinois-Urbana in 1947. He then studied two years as a postdoctoral fellow at the Massachusetts Institute of Technology (1947-48) and Harvard University (1948-49).

Dr. Hine then started his academic career at Georgia Institute of Technology as Assistant Professor; he was promoted rapidly through the ranks to Professor in 1954 and Regent's Professor in 1958. He joined The Ohio State University as Professor of Chemistry in 1965.

Professor Hine was named an Alfred P. Sloan Research Fellow (1956-60), and was awarded the Hertz Medal of the American Chemical Society (1963). He received the LL.D. (Honorary) degree from Lewis College in 1964. He was a member of several professional organizations and honorary societies, including the American Chemical Society (member of executive committee, division of organic chemistry 1963-65), Chemical Society of London, American Physical Society, Socie'te' Chemique de France, A.A.A.S., Faraday Society, Phi Beta Kappa, Sigma Xi, Phi Kappa Phi, Alpha Chi Sigma, Phi Lambda Upsilon, Omicon Delta Kappa, and Pi Mu Epsilon.

Professor Hine was a true educator in every sense of the word. He was widely recognized on Campus by both undergraduate and graduate students and faculty colleagues as one who could best convey crystal clear and logical thought patterns. His three textbooks, the first published in 1956, in three different areas of physical organic chemistry all became the textbook par excellence on the respective topic. Two features that characterized Dr. Hine's teaching and research were thoroughness and a critical care for detail. Upon his retirement in 1986, Dr. Hine was named Professor Emeritus. He continued active research projects with postdoctoral research associates until his death; via National Science Foundation and National Institutes of Health grant funding.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Hine its deepest sympathy. It was directed that
RESOLUTIONS IN MEMORIAM (contd)

Jack Hine (contd)

this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Jack E. Hufford

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 2, 1988, of Jack E. Hufford, Professor Emeritus in the Cooperative Extension Service.

Mr. Hufford was born January 24, 1909, in Greenville, Ohio. He was awarded a Bachelor of Science degree in Agriculture in 1932 and a Master's degree in Extension in 1960, both from The Ohio State University.

Mr. Hufford taught vocational agriculture for nine years before beginning his Extension experience in Logan County as a County Agricultural Agent in 1945. He remained in this position until his retirement in 1971. Mr. Hufford was highly respected by his associates throughout the State and country.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family of Mr. Hufford as an expression of the Board's heartfelt sympathy.

Michael J. Jucius

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 21, 1986, of Michael J. Jucius, Professor Emeritus in the College of Business – Administration.

Dr. Jucius was born September 29, 1907. He received a Ph.B. degree in 1931 (cum laude); an A.M. degree in 1932; and a Ph.D. degree in 1942, all from the University of Chicago. Dr. Jucius was an Instructor at the University of Kansas from 1934-36. He joined The Ohio State University faculty as an Instructor in 1936 and upon his retirement in 1966, was named Professor Emeritus. He then began a second career at the University of Arizona.

As a faculty member in the then Department of Business Organization, College of Commerce and Administration, Dr. Jucius contributed greatly to the strength of the management area of the Department. His book on personnel management was the leading seller for several years. He was also co-author of an introduction to business text and a 1960 book on management principles.

Professor Jucius was one of the most popular continuing education lecturers in the United States and taught in management schools in Italy. His teaching forte was encouraging students to think for themselves.

Dr. Jucius served as a management consultant to a number of Ohio
September 1 and 2, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Michael J. Jucius (contd)

industries, was an arbitrator of labor-management disputes, and was a part-time consultant for the War Manpower Commission. His research dealt with wage incentives, plant location and cost accounting for industrial plants.

On behalf of the University community, the Board of Trustees expresses to the family of Michael J. Jucius its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Emmanuel P. Varandyan

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 25, 1988, of Emmanuel P. Varandyan, Associate Professor Emeritus in the Department of English.

Professor Varandyan was born November 25, 1902. He received his B.A. from the University of Michigan in 1932; his M.A. from the same institution in 1934; and his Ph.D. from the State University of Iowa in 1948. Dr. Varandyan began his affiliation with The Ohio State University as an Instructor in the Department of English in 1948. He was promoted to Assistant Professor in 1949 and to Associate Professor in 1964. Upon his retirement in 1973, he was named Associate Professor Emeritus.

Before coming to Ohio State, Professor Varandyan was an Instructor of French at the University of Michigan and a Researcher in Turkish and Persian at the Clemens Library of the University of Michigan. During World War II, he was a cultural adviser and liaison officer for the American forces in the Middle East. Professor Varandyan made many contributions to the field of Armenian and other Middle Eastern studies in language and literature. His first novel, The Well of Ararat, a cultural anthropological study, received first prize in the Avery Hopwood literary contest. He was the author of a second novel, The Moon Sails, as well as many poems, short stories, articles, and translations. In addition, he served as editor of the journal, Ararat, and was a member of the Board of Directors of Middle East Studies at Harvard University.

Professor Varandyan was held in the highest esteem by his students and colleagues. A creative writer as well as a literary scholar, he conveyed his passion for Middle Eastern studies to all who knew him. He offered a course in Middle Eastern literature on a regular basis. He was known among English Department students as an especially effective teacher of writing. Since his interests transcended national boundaries he brought an important international component to the Department of English.

We have great appreciation and admiration for this writer-teacher-scholar who was a gentle person and a respected educator.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.
RESOLUTIONS IN MEMORIAM (contd)

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-24

Synopsis: The reports on contracts, grants, and gifts and the summary for June and July 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of June and July 1988 be approved.

Upon motion of Ms. Casto, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR JUNE 1988

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research</td>
<td>200</td>
<td>$14,664,606.58</td>
</tr>
<tr>
<td>Foundation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>59</td>
<td>$ 465,891.00</td>
</tr>
<tr>
<td>Total</td>
<td>259</td>
<td>$15,130,497.58</td>
</tr>
<tr>
<td>The Ohio State University Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fund</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Establishment of Named Funds

The Roland Kennedy Scholarship Fund in Dairy Science (Scholarships) $ 85,000.00

The Roland Kennedy Scholarship Fund in Home Economics (Scholarships) $ 85,000.00
SUMMARY FOR JUNE 1988 (contd)

Establishment of Named Funds (contd)

The Joseph G. Svehla Engineering Scholarship Fund (Electrical and/or Mechanical Engineering) $50,000.00

The Ohio State University Family Scholarship Fund (Scholarships to spouses and children of regular full-time staff and faculty) $17,739.00

The Miriam Ruggles Adkins Pickaway County Scholarship Fund (Scholarships to students from Pickaway County majoring in agriculture) $15,000.00

The Ian Gregory Psychiatric Lectureship Fund (Support a psychiatric lectureship) $15,000.00

The Charles W. Plum Endowment Fund (Support the Accounting Department within the College of Business) $15,000.00

Florence M. Rimoldi Scholarship Fund (Home Economics Education) $15,000.00

Change in Name and Description of Named Fund

From: The Landscape Architecture Lecture Fund
To: The Dee Dee Glimcher Lecture Fund

Change in Description of Named Fund

The Wilbur Waite Canaga Memorial Fund

SUMMARY FOR JULY 1988

Source No. of Projects Support Level

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>108</td>
<td>$8,182,346.08</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>29</td>
<td>$358,547.00</td>
</tr>
<tr>
<td>Total</td>
<td>137</td>
<td>$8,540,893.08</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

A. B., Dolly and Ralph Cohen Scholarship Fund (Scholarships) $376,460.00
The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The Freeman S. Howlett Memorial Fellowship Fund
(Provide one or more graduate fellowships in the Department of Horticulture) $75,000.00

The Helen Simpson Lambacher Fund
(To support the scholarly efforts of the holder of The Henry G. Cramblett Chair in Medicine) $50,000.00

The Ralph L. Boyer Award for Excellence in Engineering Instruction Fund
(Awards to members of the faculty of the College of Engineering deserving of commendation for their work in their field of instruction) $25,000.00

The William J. Marks Pharmacy Memorial Scholarship Fund
(For students who have demonstrated a high level of academic achievement) $20,000.00

The Valerie Helsel Scholarship Fund
(For Ohio State University Hospital employee who wishes to further his/her education) $15,000.00

The James F. Fullington Memorial Fund
(Income to benefit the College of Humanities) $6,956.00

Change in Description of Named Fund

The William J. Skou Scholarship Fund
The Ohio State University Campaign
Progress Report
@ June 30, 1988

<table>
<thead>
<tr>
<th></th>
<th>*Campaign Expectancies (Jul 87-Jun 88)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1987</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alumni</strong></td>
<td>$67,126,877</td>
<td>$27,516,929</td>
<td>$105,410,301</td>
<td>$122,500,000</td>
<td>86</td>
</tr>
<tr>
<td><strong>Friends</strong></td>
<td>33,776,696</td>
<td>20,800,770</td>
<td>62,420,546</td>
<td>70,000,000</td>
<td>89</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>15,699,289</td>
<td>66,838,006</td>
<td>116,825,224</td>
<td>122,500,000</td>
<td>85</td>
</tr>
<tr>
<td><strong>Foundations</strong></td>
<td>3,230,509</td>
<td>8,925,528</td>
<td>12,155,738</td>
<td>35,000,000</td>
<td>66</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$119,833,371</td>
<td>$124,081,233</td>
<td>$307,814,604</td>
<td>$350,000,000</td>
<td>88</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
TOTAL UNIVERSITY PRIVATE GIFT SUPPORT

July-June
1986-87 Compared to 1987-88

GIFT RECEIPTS BY DONOR TYPE

<table>
<thead>
<tr>
<th>Donors</th>
<th>July through June</th>
<th>% Change</th>
<th>Dollars</th>
<th>July through June</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>51,015</td>
<td>51,542</td>
<td>1</td>
<td>$15,404,496</td>
<td>$10,766,495</td>
</tr>
<tr>
<td>Non Alumni</td>
<td>27,034</td>
<td>25,408</td>
<td>(6)</td>
<td>10,174,960</td>
<td>7,843,080</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,956</td>
<td>2,420</td>
<td>24</td>
<td>20,250,548</td>
<td>24,101,224</td>
</tr>
<tr>
<td>Corporate Foundations</td>
<td>286</td>
<td>279</td>
<td>(2)</td>
<td>2,167,649</td>
<td>1,945,716</td>
</tr>
<tr>
<td>Private Foundations</td>
<td>138</td>
<td>161</td>
<td>17</td>
<td>4,941,117</td>
<td>11,009,701</td>
</tr>
<tr>
<td>Other</td>
<td>811</td>
<td>1,233</td>
<td>52</td>
<td>11,831,228</td>
<td>8,240,989</td>
</tr>
<tr>
<td>TOTAL</td>
<td>81,240</td>
<td>81,043</td>
<td>-</td>
<td>$64,769,998</td>
<td>$63,907,205</td>
</tr>
</tbody>
</table>
### Federal Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$593,747.00</td>
<td>National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Radar Cross Section Studies, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., W. D. Burnside and A. K. Dominek), 1 May 1988 through 31 January 1989. (Project 761608 - Continuation)</td>
</tr>
<tr>
<td>$224,604.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Electromagnetic Properties of Ice Coated Surfaces, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr. and W. D. Burnside), 15 June 1988 through 14 June 1989. (Project 766822 - New)</td>
</tr>
<tr>
<td>$187,050.00</td>
<td>Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cytotoxic Cocarcinogenic and Antileukemic Agents, Department of Chemistry (L. A. Paquette), 1 June 1988 through 31 May 1989. (Project 763284 - Continuation)</td>
</tr>
<tr>
<td>$176,920.00</td>
<td>Department of Education, Washington, D.C., The Development of a Prototype Training Model for U.S. Immersion Teachers, Department of Educational Studies: Humanities, Science, Technological and Vocational</td>
</tr>
</tbody>
</table>

---

*September 1 and 2, 1988 meeting, Board of Trustees*

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

Report - June 1988

Federal Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$593,747.00</td>
<td>National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Radar Cross Section Studies, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., W. D. Burnside and A. K. Dominek), 1 May 1988 through 31 January 1989. (Project 761608 - Continuation)</td>
</tr>
<tr>
<td>$224,604.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Electromagnetic Properties of Ice Coated Surfaces, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr. and W. D. Burnside), 15 June 1988 through 14 June 1989. (Project 766822 - New)</td>
</tr>
<tr>
<td>$187,050.00</td>
<td>Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cytotoxic Cocarcinogenic and Antileukemic Agents, Department of Chemistry (L. A. Paquette), 1 June 1988 through 31 May 1989. (Project 763284 - Continuation)</td>
</tr>
<tr>
<td>$176,920.00</td>
<td>Department of Education, Washington, D.C., The Development of a Prototype Training Model for U.S. Immersion Teachers, Department of Educational Studies: Humanities, Science, Technological and Vocational</td>
</tr>
</tbody>
</table>
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

(E. B. Bernhardt), 1 September 1988 through 31 August 1990. (Project 766853 - New)

$173,787.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Synthesis of Polyquinane and Related Natural Products, Department of Chemistry (L. A. Paquette), 1 July 1988 through 30 June 1989. (Project 762298 - Continuation)

$164,277.00 - National Science Foundation, Washington, D.C., Motion Coordination for Mobile Robots in Unstructured Environments, Department of Electrical Engineering (C. A. Klein and S. Koozekanani) and Department of Mechanical Engineering (N. Berme), 1 June 1988 through 31 May 1989. (Project 765122 - Continuation)

$156,000.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Program (Graduate and Professional Study Fellowships), Graduate School Administration (J. D. Dickerscheid), 1 September 1988 through 31 August 1989. (Project 766855 - Continuation)

$147,765.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Molecular and Functional Analysis of Human Class 1 Heparin-Binding Growth Factor, Department of Internal Medicine (I. M. Chiu), 1 July 1988 through 30 June 1989. (Project 766083 - Continuation)


$137,419.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1988 through 30 June 1989. (Project 765529 - Continuation)

$135,092.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Functional Analysis of DNA Topoisomerase I in Herpes Simplex Virus, Department of Molecular Genetics (M. T. Muller) and Department of Microbiology and Immunology (D. S. Parris), 1 July 1988 through 30 June 1989. (Project 765482 - Continuation)

$134,451.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Immune Complex-Mediated Glomerulopathies, Department of Internal Medicine (L. A. Hebert), 1 July 1988 through 30 June 1989. (Project 761786 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$133,100.00 - National Science Foundation, Washington, D.C., Syntheses and Studies of Selected Metal Carbonyl and Boron-Metal Carbonyl Clusters, Department of Chemistry (S. G. Shore), 15 March 1988 through 31 August 1989. (Project 766824 - New)

$130,610.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genetics of Myogenesis: Structure and Function, Department of Molecular Genetics (S. Falkenthal), 1 June 1988 through 31 May 1989. (Project 763993 - Continuation)

$130,000.00 - National Science Foundation, Washington, D.C., Structure, Biosynthesis, and Degradation of the Biopolymers Cutin and Suberia, Biotechnology Programs (P. E. Kolattukudy), 1 June 1988 through 31 May 1989. (Project 766545 - Continuation)

$126,000.00 - National Science Foundation, Washington, D.C., Nuclear Physics and Low and Intermediate Energies, Including the Hadron Charge Exchange and Radiative Capture Programs, Department of Physics (E. R. Sugarbaker and H. J. Hausman), 15 June 1988 through 30 November 1989. (Project 766752 - New)

$120,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Evolution of the Overwintering Biology of the Corn Leafhopper and Its Congeners, Department of Entomology - OARDC (L. R. Nault and R. A. J. Taylor) and Department of Plant Pathology - OARDC (L. V. Madden), 1 July 1988 through 30 June 1990. (Project 764270 - Continuation)

$116,917.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cardiac Dysfunction and Sudden Death Modified by Exercise, Department of Physiology (G. E. Billman), 1 July 1988 through 30 June 1989. (Project 765510 - Continuation)

$111,704.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Developmental Plasticity of Descending Spinal Pathways, Department of Anatomy (G. F. Martin, Jr.), 1 July 1988 through 30 June 1989. (Project 766115 - Continuation)

$111,001.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Facilitating the Transition from School to Work of Severely Learning Disabled Secondary Students, Department of Education Services and Research (B. Growick), 1 October 1988 through 30 September 1989. (Project 765731 - Continuation)

$105,130.00 - Department of the Interior, Geological Survey, Reston, Virginia, FY 1988 Ohio Water Research Institute Program, Department of Civil Engineering and Engineering Experiment Station (R. C. Stiefel), Department of Chemical Engineering (L. S. Fan), Department of City and
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Regional Planning (S. I. Gordon), and Department of Agronomy (S. J. Traina and T. J. Logan), 1 July 1988 through 30 June 1989. (Project 766766 - Continuation)

$104,726.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Somatostatin in Spinal Sensory Circuits, Department of Anatomy (R. H. Ho), 1 July 1988 through 30 June 1989. (Project 766184 - Continuation)

$100,709.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Effects of Father's Absence: Sociodemographic Analysis, Center for Human Resource Research (F. L. Mott), 1 July 1988 through 30 June 1989. (Project 766858 - New)

$98,500.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, ARMS -- An Acoustics-Based Resuspension Measurement System for in Place Estimates of Entrainment and Erosion from Dredged Material Disposal Sites, Department of Civil Engineering (K. W. Bedford), 1 April 1988 through 30 September 1988. (Project 766710 - New)

$98,433.00 - Department of Education, Washington, D.C., Young Scholars Program Summer Workshop in Mathematics and Biological Sciences for 7th Graders, Academic Affairs Administration (J. Bishop), 1 July 1988 through 30 June 1989. (Project 766814 - New)

$96,076.00 - National Science Foundation, Washington, D.C., Fundamental Studies in Elastohydrodynamic Lubrication, Department of Mechanical Engineering (B. J. Hamrock), 1 July 1988 through 30 June 1989. (Project 765242 - Continuation)

$85,306.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Research Training Program in Psychoneuroimmunology, Department of Microbiology and Immunology (M. R. Glaser), 1 July 1988 through 30 June 1989. (Project 766200 - Continuation)

$84,614.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A "Dynamic" Tension-time Index Hypothesis, Department of Internal Medicine (T. L. Clanton), 1 July 1988 through 30 April 1989. (Project 766821 - New)

$83,143.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Aberrant Papovavirus Replication After Genotoxic Damage, Department of Radiology (R. M. Snapka), 1 June 1988 through 31 May 1989. (Project 766206 - Continuation)

$81,000.00 - Department of Energy, Argonne, Illinois, Structure and Regulation of Methanogen Genes, Department of Microbiology (J. N. Reeve), 1 July 1988 through 30 June 1989. (Project 766060 - Continuation)
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$80,739.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Molecular Organization of a Membrane Protein Complex, Department of Botany and Department of Biochemistry (R. T. Sayre), 1 July 1988 through 30 June 1989. (Project 766849 - New)

$78,346.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Inservice Training of Teachers on Communications Skills Training and Functionally Referenced Curriculum to Benefit Severely Handicapped Students Including Deaf-Blind, College of Education - Administration (T. M. Stephens), 1 September 1988 through 31 August 1989. (Project 765650 - Continuation)

$77,188.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Training School Speech/Language Pathologists in an Educationally-Based Model, College of Education - Administration (T. M. Stephens) and Department of Education Services and Research (W. Secord), 1 September 1988 through 31 August 1989. (Project 766389 - Continuation)

$76,887.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cell-Mediated Immunity Regulation and Reinfection: Role of Contralymphokine, Oral Biology (J. F. Sheridan), 1 July 1988 through 30 June 1989. (Project 766852 - New)

$76,330.00 - National Science Foundation, Washington, D.C., Limit and Averaging Theorems in Ergodic Theory, Department of Mathematics (L. Sucheston, J. M. Rosenblatt and V. Bergelson), 1 June 1988 through 30 November 1989. (Project 766791 - New)

$76,299.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Tourette Syndrome: Behavioral, Biochemical, and EEG Deficit, Department of Psychiatry (R. A. Bornstein), 1 July 1988 through 30 June 1989. (Project 766121 - Continuation)

$75,993.00 - National Science Foundation, Washington, D.C., Effective Material Flow Management in the Small-Lot Assembly of Electronic Products, Department of Industrial and Systems Engineering (W. E. Wilhelm), 1 July 1988 through 31 December 1989. (Project 766792 - New)

$75,000.00 - Department of Energy, Argonne, Illinois, Strongly Interacting Fermion Systems, Department of Physics (J. W. Wilkins), 1 June 1988 through 14 November 1988. (Project 766783 - New)

$75,000.00 - National Science Foundation, Washington, D.C., Productive Versus Non-Productive Binding Kinases, Department of Chemistry (M. D. Tsai), 1 September 1988 through 28 February 1990. (Project 765630 - Continuation)
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$72,883.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Catalog of Federal Domestic Assistance No. 13.984, Department of Family Medicine (T. Williams and J. S. Monk), 1 September 1988 through 31 August 1989. (Project 765671 - Continuation)

$71,900.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Computer and Information Science (K. J. Supowit), 1 June 1988 through 28 February 1989. (Project 766850 - New)


$67,074.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Special Projects -- Project LRE/PE, School of Health, Physical Education and Recreation (P. Jansma), 1 July 1988 through 30 June 1989. (Project 765970 - Continuation)

$65,974.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Application of Low Temperature Chemistry and Kinetics to Photoaffinity Labeling, Department of Chemistry (M. S. Platz), 1 July 1988 through 30 June 1989. (Project 765496 - Continuation)


$65,000.00 - National Science Foundation, Washington, D.C., Inelastic Light Scattering Studies of Quantum-Layered Semiconductors and Metallic Microstructures, Department of Physics (R. Sooryakumar), 1 November 1988 through 31 October 1989. (Project 766205 - Continuation)

$62,000.00 - National Science Foundation, Washington, D.C., DNA Synthesis in Rice Endosperm, Department of Botany (V. Raghavan), 15 September 1988 through 14 September 1989. (Project 766364 - Continuation)

$60,000.00 - National Science Foundation, Washington, D.C., Software and Hardware Techniques in Knowledge-Base Machines, Department of Computer and Information Science (D. L. Lee), 1 July 1988 through 31 December 1990. (Project 766851 - New)
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$59,875.00 - National Science Foundation, Washington, D.C., ALPS: An Object Oriented Parallel Programming System, Department of Computer and Information Science (P. R. Vishnubhotla), 1 July 1988 through 31 December 1990. (Project 766847 - New)

$57,098.00 - National Science Foundation, Washington, D.C., Purification of Multicomponent Liquid Mixtures by the Dual Recycle Thermal Swing Adsorption Process, Department of Chemical Engineering (K. S. Knaebel), 1 August 1988 through 30 November 1989. (Project 765859 - Continuation)

$56,652.00 - Department of Energy, Washington, D.C., Reduction of Pumping Energy Losses in District Heating and Cooling Systems, Department of Chemical Engineering (J. L. Zaklin) and Department of Mechanical Engineering (R. N. Christensen), 1 June 1988 through 30 June 1989. (Project 765571 - Continuation)

$55,000.00 - National Science Foundation, Washington, D.C., Structural Requirements for Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey and D. W. Meek), 1 June 1988 through 30 November 1989. (Project 766800 - New)


$54,942.00 - National Aeronautics and Space Administration, Washington, D.C., Interaction of Calcium, Calmodulin, and Auxin in Root Gravitropism, Department of Botany (M. L. Evans), 1 March 1988 through 29 February 1989. (Project 763005 - Continuation)

$54,693.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Graduate Program in Hospital and Health Services Administration, Division of Hospital and Health Services Administration (S. F. Loebs), 1 October 1988 through 30 September 1989. (Project 761329 - Continuation)

$52,574.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Robust Estimation of Regional Deformations and Relative Plate Motions from Robust Estimation, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1988 through 30 June 1989. (Project 761054 - Continuation)

September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$50,867.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Molecular Analysis of Exotoxin A from Pseudomonas aeruginosa, Department of Microbiology (D. R. Galloway), 1 June 1988 through 31 May 1989. (Project 766775 - New)

$50,584.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1988 through 30 June 1989. (Project 764653 - Continuation)

$50,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Modeling of Free Surface Viscoelastic Jets and Instability Mechanisms, Department of Mathematics (M. G. Forest) and Department of Engineering Mechanics (S. E. Bechtel), 1 April 1988 through 31 March 1989. (Project 766707 - New)


$49,674.00 - Department of Energy, Argonne, Illinois, Molecular Orbital Studies of the Bonding in Heavy Element Organometallics, Department of Chemistry (B. E. Bursten), 1 July 1988 through 30 June 1989. (Project 765484 - Continuation)

$48,350.00 - National Science Foundation, Washington, D.C., Single-Atom Peri-Bridged Arenes and Hetarenes: Carbenic and Silicanionic Processes, Department of Chemistry (H. Shechter), 1 July 1988 through 31 October 1989. (Project 766810 - New)

$44,828.00 - Department of the Army, Army Corps of Engineers, Huntsville, Alabama, Remote Sensing -- Fundamentals Training Course, Department of Civil Engineering (J. G. Lyon), 1 June 1988 through 31 May 1989. (Project 766770 - New)

$43,678.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, Research and Graduate Studies Administration (T. L. Sweeney), 1 June 1988 through 31 May 1989. (Project 766809 - Continuation)

$43,000.00 - National Science Foundation, Washington, D.C., Research in Algebraic and Differential Topology, Department of Mathematics (R. M.
Federal Research Contracts/Grants (contd)

Charney and M. W. Davis), 1 July 1988 through 31 December 1989. (Project 765576 - Continuation)

$39,987.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Radar Cross Section Computation of Arbitrarily Shaped Cavities, Department of Electrical Engineering, ElectroScience Laboratory (R. C. Chou), 21 June 1988 through 20 June 1990. (Project 766823 - New)

$38,500.00 - National Science Foundation, Washington, D.C., Non-Commutative Harmonic Analysis, Department of Mathematics (H. Moscovici and R. J. Stanton), 15 June 1988 through 30 November 1989. (Project 766790 - New)

$37,768.00 - National Academy of Science, Washington, D.C., Teaching Abroad, Department of Economics (B. M. Fleisher), 1 February 1989 through 1 June 1989. (Project 766803 - New)

$37,096.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Mixing in Supersonic Shear Layers, Department of Mechanical Engineering (M. Samimy), 19 May 1988 through 31 January 1990. (Project 765931 - Continuation)

$34,600.00 - National Science Foundation, Washington, D.C., Two Routes to Persuasion, Department of Psychology (R. E. Petty), 1 January 1988 through 30 June 1988. (Project 766756 - New)

$33,789.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Health Careers Opportunity Program (HCOP), College of Medicine - Administration (M. Tzagournis, J. H. Williams and S. M. Kantor), 1 September 1988 through 31 August 1989. (Project 765421 - Continuation)

$30,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Enroute Flight Path Planning: Cooperative Performance of Flight Crews and Knowledge-Based Systems, Department of Industrial and Systems Engineering (P. J. Smith) and Department of Aviation (C. E. McCoy), 1 June 1988 through 31 January 1989. (Project 766649 - Continuation)

$27,745.00 - National Science Foundation, Washington, D.C., Simulation and Field Measurement of Aspects of the Urban Canopy Layer Climate and Energy Budget, Department of Geography (A. J. Arnfield), 16 March 1988 through 31 May 1989. (Project 766530 - New)

$26,033.00 - National Science Foundation, Washington, D.C., Study of Recent Ice-Volume Changes Along the Margin of the East Antarctic Ice Sheet, Byrd Polar Research Center and Department of Geology and Mineralogy (G. Faure), 15 June 1988 through 31 May 1989. (Project 766841 - New)
Federal Research Contracts/Grants (contd)

$25,000.00 - Department of the Navy, Naval Material Command, Bethesda, Maryland, Vortex Motion Past a Cavity with Elastic Obstructions, Department of Mechanical Engineering (A. T. Conlisk), 7 April 1987 through 30 April 1988. (Project 765323 - Continuation)

$24,840.00 - National Science Foundation, Washington, D.C., Supplemental Support Under the Research Experience for Undergraduate Program, Engineering Experiment Station (T. Altan), 1 May 1988 through 31 August 1988. (Project 765393 - Continuation)

$22,700.00 - National Science Foundation, Washington, D.C., L-Functions with Applications to the Oscillator Representation, Department of Mathematics (S. Rallis), 1 June 1988 through 30 November 1989. (Project 766771 - New)


$21,450.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Psychosedation and Monitoring of Pediatric Dentistry, Pediatric Dentistry (S. Wilson), 1 July 1988 through 30 June 1989. (Project 766818 - New)

$18,996.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Binding Properties of Rhodium (II) Carboxylate Complexes, Department of Chemistry (B. E. Bursten and K. I. Goldberg), 12 May 1988 through 11 May 1989. (Project 766735 - New)

$17,726.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Nurse Anesthesia Traineeship, School of Allied Medical Professions (S. L. Wilson), 1 July 1988 through 30 June 1989. (Project 764173 - Continuation)

$16,503.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 July 1988 through 30 November 1988. (Project 761196 - Continuation)

$15,000.00 - National Aeronautics and Space Administration, Washington, D.C., SETI Research, Department of Electrical Engineering (J. D. Kraus and R. S. Dixon), 1 February 1988 through 31 January 1989. (Project 764694 - Continuation)

$12,391.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, College of Pharmacy (D. S. Pathak), 1 June 1988 through 31 May 1989. (Project 766773 - New)
$11,990.00 - National Science Foundation, Washington, D.C., Women's Political Mobilization and Social-Psychological Adaptations to Farm Crisis, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. L. Reif) and Department of Sociology (M. K. Meyer), 1 October 1988 through 31 March 1990. (Project 766811 - New)

$9,526.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Traineeships for Students in Graduate Health Administration, Division of Hospital and Health Services Administration (S. F. Loeb), 1 July 1988 through 30 June 1989. (Project 766805 - Continuation)

$9,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Workshop to Establish a National Network of Living Nematode Culture Collections, Department of Plant Pathology - OARDC and Department of Plant Pathology (R. M. Riedel), 21 March 1988 through 20 March 1989. (Project 766859 - New)

$8,654.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, Department of Veterinary Pathobiology (C. L. Brooks), 1 July 1988 through 30 June 1989. (Project 766865 - New)

$6,000.00 - National Science Foundation, Washington, D.C., Almost Everywhere Convergence in Probability and Ergodic Theory, Department of Mathematics (L. Sucheston), 1 May 1988 through 30 April 1989. (Project 766777 - New)

$5,000.00 - Department of Agriculture, Science and Education, Washington, D.C., International Conference on Sustainable Agricultural Systems, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards), 16 April 1988 through 15 April 1989. (Project 766795 - New)

$4,000.00 - National Science Foundation, Washington, D.C., The Organization of Informational Structure in Articulator Movement and Acoustic Duration Patterns, Department of Linguistics (M. E. Beckman), 1 June 1988 through 30 November 1989. (Project 766069 - Continuation)

$4,000.00 - National Science Foundation, Washington, D.C., Relativistic Optical Model at Intermediate Energies, Department of Physics (B. C. Clark), 1 July 1988 through 31 December 1989. (Project 765350 - Continuation)

$3,000.00 - National Science Foundation, Washington, D.C., Productive Versus Non-Productive Binding Kinases, Department of Chemistry (M. D. Tsai), 1 July 1988 through 28 February 1990. (Project 765630 - Continuation)

$2,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Improvement of the Earth's Gravity Field from Terrestrial and Satellite Data, Department of Geodetic Science
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

and Surveying (R. H. Rapp), 1 July 1988 through 31 July 1988. (Project 760056 - Continuation)


TOTAL - FEDERAL AWARDS $10,571,351.00

State of Ohio Research Contracts/Grants

$365,454.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Ecology and Population Dynamics of Lake Erie Fishes, Department of Zoology (B. Vondracek), 1 July 1988 through 30 June 1989. (Project 766201 - Continuation)

$208,250.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (B. Vondracek, R. A. Stein and D. A. Culver) and School of Natural Resources (D. L. Johnson), 1 July 1988 through 30 June 1989. (Project 766202 - Continuation)

$145,000.00 - State of Ohio, Department of Aging, Columbus, Ohio, OSU Alzheimer's Disease Research Center, College of Medicine - Administration (G. L. Trzebiatowski), 1 March 1988 through 30 June 1988. (Project 766254 - Continuation)

$139,969.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Middle and Junior High School Counselor Career/Vocational Guidance Development Professional Renewal Workshop Plan -- Workshop #2, The National Center for Research in Vocational Education (R. D. Ryan), 23 May 1988 through 30 September 1988. (Project 766785 - New)

$80,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, College of Education - Administration (T. M. Stephens), 1 July 1988 through 30 June 1989. (Project 766857 - Continuation)

$47,152.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio's Martin W. Essex School for the Gifted -- 1988, College of Education - Administration (T. M. Stephens) and Education Services and Research (R. H. Swassing), 1 April 1988 through 31 March 1989. (Project 766788 - Continuation)

$32,713.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Agency Disclosure Program, Academic Faculty of Finance (R. L. Racster), 1 May 1988 through 31 December 1988. (Project 766767 - New)

$20,822.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, College of Education - Administration (T. M. Stephens), 1 July 1988 through 30 June 1989. (Project 766857 - Continuation)
State of Ohio Research Contracts/Grants (contd)

Personnel, College of Education - Administration (T. M. Stephens), 1 July 1987 through 30 June 1988. (Project 766265 - Continuation)

$20,256.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, The Relationship Between Congruence with and Degree of Preference for Post-Discharge Living Situation and Social Functioning and Community Tenure in Long-Term Mentally Ill Individuals, Department of Life Span Process (C. J. Bininger), 1 June 1988 through 30 June 1989. (Project 766848 - New)

$20,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Citizen Communication Needs and Perceptions of Risk Relating to the Union Town Toxic Waste Site, Department of Communication (B. Dervin), 1 April 1988 through 30 September 1988. (Project 766802 - New)

$10,626.00 - State of Ohio, Department of Education, Columbus, Ohio, Upward Bound Summer Food Service Program, Office of Minority Affairs (L. G. Morrow), 20 June 1988 through 31 July 1988. (Project 766789 - New)

$9,653.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Ground-Water Quality Changes Caused by Brine Spreading for Dust and Ice Control, Department of Geology and Mineralogy (E. S. Bair), 1 July 1988 through 30 June 1989. (Project 766776 New)

$4,173.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force, College of Education - Administration (T. M. Stephens), 1 July 1987 through 30 June 1988. (Project 766175 - Continuation)

TOTAL - STATE OF OHIO AWARDS $ 1,104,068.00

Industrial Research Contracts/Grants

$75,000.00 - TRW, San Diego, California, Multifunction Antenna Study, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 1 November 1987 through 1 July 1988. (Project 765410 - Continuation)

$41,000.00 - International Business Machines Corporation, Yorktown Heights, New York, Development of Phenomenological Relativistic Approach to Nuclear Physics, Department of Physics (B. C. Clark), 1 October 1988 through 30 September 1989. (Project 765137 - Continuation)

$35,525.00 - Sandoz, Inc., East Hanover, New Jersey, Sandoz Open Label Study, Department of Internal Medicine (K. Osei), 1 May 1988 through 31 October 1989. (Project 765742 - Continuation)

$32,500.00 - Norwich-Eaton Pharmaceuticals, Inc., Norwich, New York, A Double-Blind, Multicenter Study to Compare the Safety and Efficacy of Nitrofurantoin Controlled Release Capsules, 100 mg, Twice a Day for Seven Days to Macrobid capsules, 50 mg, Four Times a Day for Seven Days in
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

the Treatment of Urinary Tract Infections, Department of Internal Medicine (C. M. Kunin), 21 April 1988 through 20 April 1989. (Project 766768 - New)

$28,552.50 - Owens-Illinois, Columbus, Ohio, Job/Task Analysis and Video Job Training Development -- Nine Jobs, College of Education - Administration (J. J. Buffer), 1 January 1988 through 30 June 1989. (Project 765905 - Continuation)

$24,000.00 - Procter and Gamble Company, Cincinnati, Ohio, The Neonatal, Gnotobiotic Pig as a Host for Model *Campylobacter pylori* Infection of the Upper GI Tract, Department of Veterinary Pathobiology (G. S. Krakowka), 10 June 1988 through 9 June 1989. (Project 766797 - New)

$21,100.00 - CeramPhysics, Inc., Westerville, Ohio, Extrusion of Ceramic Superconductors, Department of Ceramic Engineering (E. R. Kreidler), 16 May 1988 through 15 May 1989. (Project 766798 - New)

$10,000.00 - Ethicon, Inc., Somerville, New Jersey, Surgical Correction of Myopia and Astigmatism in Cats, Department of Ophthalmology (A. W. Fryczkowski), 8 June 1988 through 7 June 1989. (Project 766799 - New)

$7,615.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 April 1988 through 31 December 1988. (Project 766470 - Continuation)

$6,727.00 - E. R. Squibb and Sons, Princeton, New Jersey, Placebo-Controlled Trial of Fosenopril Sodium Added to Chlorthalidone 25 mg Daily for the Treatment of Mild to Moderate Essential Hypertension, Department of Family Medicine (R. M. Guthrie) and Department of Pharmacology (N. Gerber), 1 September 1987 through 31 December 1988. (Project 765696 - Continuation)


TOTAL - INDUSTRIAL AWARDS $ 291,560.58

Other Non-Federal Research Contracts/Grants

$337,464.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Subcontract for the General Participant Training II Project in Indonesia, Office of International Affairs (D. G. McCloud), 1 April 1988 through 21 June 1989. (Project 766807 - New)
$288,353.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1988 through 30 September 1989. (Project 766813 - Continuation)

$200,000.00 - Ohio University, Athens, Ohio, Molecular Farming: Recombinant Gene Expression in Bovine Mammary Gland and Hen Oviduct, Department of Dairy Science - OARDC (F. L. Schanbacher and C. P. Hodgson), 1 July 1988 through 30 June 1989. (Project 766005 - Continuation)

$165,504.00 - Children's Hospital Research Foundation, Columbus, Ohio, Evaluation of Flunarizine as a Treatment for Patients with Partial Seizures, Department of Neurology (M. E. Drake, Jr.), 7 December 1987 through 6 April 1990. (Project 766579 - New)

$132,000.00 - Lilly Endowment, Inc., Indianapolis, Indiana, Development of a Teaching Fellows Program at The Ohio State University, Academic Affairs Administration (J. Leitzel and M. Brand), 1 August 1988 through 31 August 1991. (Project 766517 - New)

$114,080.00 - National Dairy Promotion and Research Board, Logan, Utah, Optimization of Whey Protein Functionality Through Process Induced Changes in Composition and/or Structure, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (M. E. Mangino), 1 July 1988 through 30 June 1991. (Project 766779 - New)


$80,287.00 - Boston University, Boston, Massachusetts, Principles for Machine/Human Compatibility in Manufacturing Systems, Department of Industrial and Systems Engineering (A. B. Bishop), 1 July 1988 through 30 June 1989. (Project 766000 - Continuation)

$70,000.00 - American Cancer Society, New York, New York, Patterns of Macromolecular Synthesis During Acquisition and Loss of Amplified Genes, Department of Radiology (R. M. Snapka), 1 July 1988 through 30 June 1989. (Project 765521 - Continuation)

$60,000.00 - American Cancer Society, New York, New York, American Cancer Society Institutional Research Grant, Comprehensive Cancer Center (D. S. Yohn), 1 July 1988 through 30 June 1989. (Project 764472 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$49,011.00 - Applied Information Technologies Research Center, Columbus, Ohio, SGML, Hypermedia Document Facility and Presentation Toolkit: Software Architecture Design Feasibility Study, Academic Faculty of Accounting and Management Information Systems and Department of Economics (J. S. Cunyngham), 1 July 1988 through 31 December 1988. (Project 766842 - New)


$36,733.00 - Muscular Dystrophy Association, New York, New York, Complement Membrane Attack Complex in Dermatomyositis, Department of Neurology (J. T. Kissel), 1 July 1988 through 30 June 1989. (Project 766043 - Continuation)

$34,000.00 - American Cancer Society, New York, New York, Biochemical Pharmacology of New Aromatase Inhibitors for Treatment of Estrogen-Dependent Cancers, College of Pharmacy (R. W. Brueggemeier), 1 July 1988 through 30 June 1989. (Project 764529 - Continuation)

$33,000.00 - American Heart Association, Dallas, Texas, Kinetic Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 July 1988 through 30 June 1989. (Project 765543 - Continuation)

$30,000.00 - Iowa State University, Ames, Iowa, Spectroscopic Evaluation of Structural Adhesive Bonding: Linear and Nonlinear Methods, Department of Welding Engineering (L. Adler), 1 May 1988 through 30 September 1988. (Project 766636 - Continuation)

$28,100.00 - United Auto Workers-General Motors Human Resource Center, Madison Heights, Michigan, AIDS in the Workplace, Department of Family Medicine (L. L. Gabel), 1 April 1988 through 31 March 1989. (Project 766769 - New)

$27,646.00 - Muscular Dystrophy Association, New York, New York, Probing Z-line Composition and Structure: Novel Approaches, Department of Veterinary Anatomy (M. Yamaguchi), 1 July 1988 through 30 June 1989. (Project 766182 - Continuation)

$26,910.00 - Hannah Neil Center for Children, Columbus, Ohio, Implementing Behavioral Treatment Activities: A Joint Human Services/Physical Education Internship, School of Health, Physical Education and Recreation (C. L. Mand) and Department of Education Services and Research (J. O. Cooper), 1 September 1987 through 31 August 1988. (Project 766781 - Continuation)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Metabolic and Hormonal Control of Myocardial Adenylate Deaminase, Department of Internal Medicine (R. A. Altschuld), 1 July 1988 through 30 June 1989. (Project 766835 - New)
Other Non-Federal Research Contracts/Grants (contd)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Does Lack of Oxygen Limit Maximum Force in Fatigued Diaphragm?, Department of Internal Medicine (T. L. Clanton), 1 July 1988 through 30 June 1989. (Project 766834 - New)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Sequential, Concentration-Targeted, Exponentially-Declining Procainamide Infusions for Electrophysiology Studies, College of Pharmacy (J. D. Coyle), 1 July 1988 through 30 June 1989. (Project 766780 - New)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Model of Adrenergic Hypersensitivity After Beta-Blockade, College of Pharmacy (J. J. Lima), 1 July 1988 through 30 June 1989. (Project 766142 - Continuation)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Alterations in the Horse During the First Week of Exercise, Department of Veterinary Clinical Sciences (K. H. McKeever), 1 July 1988 through 30 June 1989. (Project 766826 - New)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Immunopathology of Systemic Necrotizing Vasculitis, Department of Neurology (J. R. Mendell), 1 July 1988 through 30 June 1989. (Project 766837 - New)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Total Artificial Heart: Central and Peripheral Vascular Effects, Department of Surgery (K. D. Murray) and Department of Internal Medicine (S. D. Nelson), 1 July 1988 through 30 June 1989. (Project 766227 - Continuation)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Reperfusion Strategies and Post Infarction Arrhythmias, Department of Internal Medicine (S. D. Nelson), 1 July 1988 through 30 June 1989. (Project 766827 - New)

$25,000.00 - Easter Seal Research Foundation, Chicago, Illinois, Gait Analysis of the Effects of Inhibitive Casts and Orthotics in Cerebral Palsy, Department of Physical Medicine (W. S. Pease and R. J. Bobulski), 1 July 1988 through 30 June 1989. (Project 766073 - Continuation)

$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Smokeless Tobacco and Blood Pressure in Males Ages 13-25, Oral Biology (K. Schroeder) and Department of Health, Physical Education and Recreation (M. S. C. Chen), 1 July 1988 through 30 June 1989. (Project 766817 - Continuation)

$24,952.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Cell Surface Control of Smooth Muscle Differentiation, Department of Anatomy (A. R. Strauch), 1 July 1988 through 30 June 1989. (Project 766123 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$22,265.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Catecholaminergic Control of Cardiovascular Development, Department of Psychology (J. P. Bruno and G. T. Berntson), 1 July 1988 through 30 June 1989. (Project 766833 - New)

$20,000.00 - Ingram-White Castle Foundation, Columbus, Ohio, Education for Improved Medical Management of Child Physical and Sexual Abuse, College of Medicine - Administration (G. L. Trzebiatowski), 1 August 1988 through 31 July 1989. (Project 766820 - New)

$20,000.00 - Iowa State University, Ames, Iowa, Nondestructive Evaluation of the Structural Adhesive Bonding for Aircraft Applications, Department of Welding Engineering (S. Rokhlin), 1 May 1988 through 30 September 1988. (Project 766636 - Continuation)

$19,976.00 - National Parkinson Foundation, Miami, Florida, Neurochemical Compensations and the Sparing from Parkinsonian Deficits, Department of Psychology (J. P. Bruno) and Department of Pharmacology (M. H. Neff), 1 June 1988 through 31 May 1989. (Project 766804 - New)

$19,639.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Cardiac Autonomic Control in Patients Susceptible to Sudden Cardiac Death, Department of Physiology (J. P. L. Dujardin), 1 July 1988 through 30 June 1989. (Project 766844 - New)

$18,330.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Mechanism of Cyclic Guanine Monophosphate (C-GMP) Relaxation of Vascular Smooth Muscle, Department of Physiological Chemistry (J. D. Johnson), 1 July 1988 through 30 June 1989. (Project 766836 - Continuation)

$18,250.00 - Arthritis Foundation - Central Ohio Chapter, Columbus, Ohio, Immunoregulation and Autoimmunity, Department of Medicine (R. L. Whisler), 1 April 1988 through 31 March 1989. (Project 760620 - Continuation)

$18,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Isolated Myocytes from Failing Human Ventricles, Department of Internal Medicine (R. A. Altschuld and Q. Li), 1 July 1988 through 30 June 1989. (Project 766828 - New)

$18,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Calcium Dynamics and Contractile Activity in Ventricular Myocytes of Normal and Cardiomyopathic Rats, Department of Physiology (B. T. Stokes) and Department of Internal Medicine (D. L. Groden), 1 July 1988 through 30 June 1989. (Project 766845 - New)

$18,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Effects of Percutaneous Transluminal Coronary Angioplasty (PTCA) on Coronary Flow Reserve in Patients with Limited Coronary Artery Disease, Department of Internal Medicine (D. B. Van Fossen and G. J. Haas), 1 July 1988 through 30 June 1989. (Project 766830 - New)
$18,000.00 - Nine Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

$17,500.00 - American Lung Association of Ohio, Columbus, Ohio, Effect of Cigarette Smoking on Cell-Mediated Elastolysis and on the Anti-Elastase Capacity in the Lower Respiratory Tract, Department of Internal Medicine (M. D. Wewers), 1 July 1988 through 30 June 1989. (Project 766165 - Continuation)

$15,650.00 - American Lung Association of Ohio, Columbus, Ohio, The Effect of Oxidant Injury on Oxygen Uptake-Oxygen Delivery Relationships in the Isolated Perfused Liver, Department of Internal Medicine (P. M. Dorinsky), 1 July 1988 through 30 June 1989. (Project 766166 - Continuation)

$15,234.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Influence of Hypertension on Experimental Stroke, Department of Neurology (A. P. Slivka), 1 July 1988 through 30 June 1989. (Project 766831 - New)

$15,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Photoaffinity Labeling of Coumarine-Sensitive Enzyme in Liver, Department of Biochemistry (R. P. Swenson), 1 July 1988 through 30 June 1989. (Project 766856 - New)

$14,863.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Hypothalamic Neuronal Sensitivity in Hypertensive Rats, Department of Physiology (J. A. Boulant), 1 July 1988 through 30 June 1989. (Project 766843 - New)

$14,807.00 - Battelle Memorial Institute, Columbus, Ohio, Chronic Toxicity Tests of Sodium Fluoride (Histopathology of Teeth and Bones), Department of Veterinary Pathobiology (S. E. Weisbrode), 1 October 1985 through 31 October 1988. (Project 765113 - Continuation)


$14,000.00 - The Samuel Roberts Noble Foundation, Inc., Ardmore, Oklahoma, Studies of Macrophage Biology, Department of Microbiology (B. S. Zwilling), 1 June 1988 through 31 May 1989. (Project 766172 - Continuation)

$13,687.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Changes in Plasma Volume, ANF, Aldosterone, Renin, and Vasopressin During Exercise Training and Spironolactone Administration, School of Health, Physical Education and Recreation (D. R. Lamb), 1 July 1988 through 30 June 1989. (Project 766815 - New)
$12,000.00 - Fight for Sight, Inc., Baltimore, Maryland, Corneal Physiologic Changes with Alloplastic Intracorneal Implants, Department of Ophthalmology (C. G. Kelley), 1 July 1988 through 30 June 1989. (Project 766808 - New)

$11,940.00 - Dublin Local Schools, Dublin, Ohio, Adaptive Physical Education Internship, School of Health, Physical Education and Recreation (P. Jansma), 1 September 1988 through 30 June 1989. (Project 766863 - Continuation)

$10,032.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Reperfusion Strategies and Post Infarction Arrhythmias -- Young Investigator Award, Department of Internal Medicine (S. D. Nelson), 1 July 1988 through 30 June 1989. (Project 766832 - New)

$9,800.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Effects of Percutaneous Transluminal Coronary Angioplasty (PTCA) on Coronary Flow Reserve in Patients with Limited Coronary Artery Disease, Department of Internal Medicine (D. B. Van Fossen and G. J. Haas), 1 July 1988 through 30 June 1989. (Project 766829 - New)

$9,330.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (C. B. Davis), 1 July 1988 through 30 June 1989. (Project 765812 - Continuation)

$8,728.00 - Gallipolis Developmental Center, Gallipolis, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 July 1988 through 31 December 1988. (Project 766862 - Continuation)

$6,743.00 - Iowa State University, Ames, Iowa, Ultrasonic Evaluation of Porosity in Aluminum Cast Material, Department of Welding Engineering (L. Adler), 1 May 1988 through 30 September 1988. (Project 766636 - Continuation)

$6,450.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, NSABP Colo-Rectal Protocols, Department of Surgery (W. B. Farrar), 1 February 1988 through 31 January 1989. (Project 763581 - Continuation)


$5,000.00 - American Federation for Aging Research - Ohio Affiliate, Columbus, Ohio, Changes in Intercalated Disc and Z-line Properties Association with Aging, Department of Veterinary Anatomy (M. Yamaguchi), 1 July 1988 through 30 June 1989. (Project 766772 - New)
$5,000.00 - Schering-Plough Foundation, Kenilworth, New Jersey, Combination Chemotherapy Consisting of Diethylstilbestrol and Alpha-Interferon in Refractory Chronic Lymphocytic Leukemia, Department of Internal Medicine (P. L. Triozi), 1 March 1988 through 28 February 1989. (Project 766782 - New)


$4,825.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Pathology (R. O'Toole), 1 January 1988 through 31 December 1988. (Project 761460 - Continuation)

$4,000.00 - Catawba Valley Community College, Hickory, North Carolina and Savannah Area Vocational-Technical School, Savannah, Georgia, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766839 - Continuation)


$2,550.00 - Arts Midwest, Minneapolis, Minnesota, Trisha Brown Dance Company, Mershon Auditorium (R. Van Leer), 10 April 1989 through 11 April 1989. (Project 766794 - New)


$1,900.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder), 1 October 1987 through 30 September 1988. (Project 766094 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)


TOTAL - OTHER NON-FEDERAL AWARDS $ 2,697,627.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development


Industrial and Other Sponsored Research and Development

$118,337.00 - Additional budget from Applied Information Technology Research Center, Columbus, OH, "Extension to the Chameleon Translation System," Department of Computer and Information Science, 1 June 1986 through 30 June 1989. (529712, Ext. 4)

$116,710.00 - Gas Research Institute, Chicago, IL, "Applications of Advanced Heat Transfer: Doubly-Fluted Tubes and Enhanced Tubes in Confined Crossflow," Department of Mechanical Engineering, 1 August 1987 through 31 December 1988. (529738, Ext. 1)

$51,000.00 - from various industry for membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)


$43,430.00 - from 44 sponsors of 49 development projects in four departments/research areas of the College.

$25,000.00 - from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529202)

$21,400.00 - Battelle Columbus Labs, Columbus, OH, "Transport and Dosimetry Analysis Test Specimen Evaluation," Department of Mechanical Engineering, 1 April 1988 through 31 December 1988. (312460)

$20,000.00 - Additional budget from AT&T Foundation, New York, NY, "Development of Graduate Courses in Manufacturing and Systems Engineering," Department of Industrial and Systems Engineering, 1 May 1986 through 30 April 1989. (529704, Ext. 2)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$13,085.00 - Applied Information Technology Research Center, Columbus, OH, "Preliminary Study of Parallel Search Methods for Signature Files," Department of Computer and Information Science, 1 April 1988 through 30 June 1988. (529758)

$7,000.00 - from various industry for membership in the Gear Research Laboratory under the direction of the Department of Mechanical Engineering. (529735)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $465,891.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Roland Kennedy Scholarship Fund in Dairy Science

The Roland Kennedy Scholarship Fund in Dairy Science was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Lucile W. Kennedy (B.S.H.E. '21), Marysville, Ohio, in memory of Roland N. Kennedy.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide undergraduate and/or graduate scholarships, fellowships, or associateships for students enrolled in the Department of Dairy Science. The selection of the recipient(s) is to be made upon the recommendation of the Chairperson of the Department of Dairy Science in the College of Agriculture, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Dairy Science Education or the Vice President for Agricultural Administration, in order to carry out the desire of the donor.

The Roland Kennedy Scholarship Fund in Home Economics

The Roland Kennedy Scholarship Fund in Home Economics was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Lucile W. Kennedy (B.S.H.E. '21), Marysville, Ohio, in memory of Roland N. Kennedy.
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Roland Kennedy Scholarship Fund in Home Economics (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide undergraduate and/or graduate scholarships, fellowships, or associateships for students enrolled in the College of Home Economics. The selection of the recipient(s) is to be made upon the recommendation of the Dean of the College of Home Economics, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Home Economics, or the Dean of the College of Home Economics, in order to carry out the desire of the donor.

The Joseph G. Svehla Engineering Scholarship Fund

The Joseph G. Svehla Engineering Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Joseph G. Svehla (B.M.E. '31, B.E.E. '31, M.S. '34) of New Buffalo, Michigan.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be awarded to students who are majoring in either electrical and/or mechanical engineering, with preference given to students who have proven financial need. Recipients will be selected by the Dean of the College of Engineering or his designee in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.
Establishment of Named Funds (contd)

The Ohio State University Family Scholarship Fund

The Ohio State University Family Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from faculty and staff members of The Ohio State University.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to spouses and children of regular full-time staff and faculty at The Ohio State University. These scholarships may be used for educational expenses at any accredited post-secondary institution. The spouses and children of regular full-time staff and faculty with five years continuous full-time employment are eligible to apply. Preference will be given to spouses and children who have demonstrated academic ability and financial need. The maximum accrued award per student will be $1,000. Selection of the recipients will be made by The Ohio State University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Miriam Ruggles Adkins Pickaway County Scholarship Fund

The Miriam Ruggles Adkins Pickaway County Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Miriam Ruggles Adkins (Circleville, Ohio) Trust.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support one or more scholarships to students from Pickaway County who are interested in majoring in agriculture. Criteria for selection shall include outstanding scholastic achievement and demonstrated leadership potential through extracurricular activities. Preference will be given to those students with financial need. Selection will be made by the University Committee on Student Financial Aid in consultation with the Dean of the College of Agriculture.
Establishment of Named Funds (cont'd)

The Miriam Ruggles Adkins Pickaway County Scholarship Fund (cont'd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for the College of Agriculture in order to carry out the desire of the donor.

The Ian Gregory Psychiatric Lectureship Fund

The Ian Gregory Psychiatric Lectureship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from friends of Dr. Ian Gregory of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support a psychiatric lectureship. All expenditures shall be approved by the Department Chairperson in consultation with the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Charles W. Plum Endowment Fund

The Charles W. Plum Endowment Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Charles W. Plum (B.S.Bus. Adm. '36) of College Station, Texas.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the support of the Accounting Department within the College of Business. Expenditures from the fund shall be authorized at the discretion of the Department Chairperson.
Establishment of Named Funds (contd)

The Charles W. Plum Endowment Fund (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

Florence M. Rimoldi Scholarship Fund

The Florence M. Rimoldi Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Florence M. Rimoldi (B.S.H.E. ’22).

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for students in the College of Home Economics majoring in Home Economics Education. The recipients shall be selected on the basis of scholarship, service and commitment to the Home Economics Education profession.

Selections shall be made each year by the appointees of the Dean of the College of Home Economics, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for Home Economics Education and the Dean of the College of Home Economics, in order to carry out the desire of the donors.

Change in Name and Description of Named Fund

The Dee Dee Glimcher Lecture Fund

The Landscape Architecture Lecture Fund was established October 2, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Herbert and Diane R. Glimcher of Columbus, Ohio, alumni, friends, and faculty of the Department of Landscape Architecture. The name and description were changed September 2, 1988.
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name and Description of Named Fund (contd)

The Dee Dee Glimcher Lecture Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund lectures on landscape architecture and to disseminate information about the lectures and publications thereof. Expenditures will be made under the direction of the Chairperson of the Department of Landscape Architecture or an assigned committee.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate department chairperson or program administrative officer responsible for landscape architecture education, in order to carry out the desire of the donors.

Change in Description of Named Fund

The Wilbur Waite Canaga Memorial Fund

The Wilbur Waite Canaga Memorial Fund was established July 12, 1974, by the Board of Trustees of The Ohio State University with a bequest from the late Ruth Regina Hale Canaga to The Ohio State University through The Ohio State University Development Fund in memory of her husband, Wilbur Waite Canaga (B.S.Agr. '15) formerly of Lansing, Illinois. The description was changed September 2, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Annual income is to be divided equally between the College of Biological Sciences and the College of Agriculture and is to be used to provide one or more scholarships for students enrolled in each of these Colleges. The number and value of scholarships is to be determined independently by each of the Colleges. Consideration is to be given to high scholarship plus indicated interest in biochemistry, per se, and/or its application to agriculture. Selection of recipients shall be made by the respective Deans in cooperation with the University Committee on Student Financial Aid.

Should the need for these scholarships cease to exist or so diminish as to provide unused income, the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

The Wilbur Waite Canaga Memorial Fund (contd)

given to recommendations from the appropriate administrative officials of the University who are then directly responsible for selection of students to receive these scholarships.

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - July 1988

Federal Research Contracts/Grants

$2,218,940.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, OSU Comprehensive Cancer Center Support (Core) Grant, Comprehensive Cancer Center (D. E. Schuller), 1 July 1988 through 30 June 1989. (Project 763976 - Continuation)

$201,985.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Vascular Healing: Cell and Rheologic Factors, Department of Internal Medicine (D. L. Fry), 1 July 1988 through 30 April 1989. (Project 766884 - New)

$200,000.00 - Department of Health and Human Services, Office of Human Development Services, Administration on Developmental Disabilities, Kansas City, Missouri, University Affiliated Facility (UAF) Administration and Operation, Nisonger Center (S. R. Schroeder), 1 July 1988 through 30 June 1989. (Project 763712 - Continuation)

$174,900.00 - Department of Energy, Argonne, Illinois, Molecular Ferromagnetism, Department of Physics and Department of Chemistry (A. J. Epstein), 1 August 1988 through 31 July 1989. (Project 765592 - Continuation)

$150,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Molecular Analyses of Benomyl Resistant Mutants of Aspergillus nidulans, Department of Molecular Genetics (B. R. Oakley), 1 July 1988 through 30 June 1990. (Project 766902 - Continuation)


$149,525.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Study of the Clinical Pharmacokinetics of Anti-Cancer Drugs, College of Pharmacy (L. Malspeis), 1 June 1988 through 31 May 1989. (Project 766139 - Continuation)
September 1 and 2, 1988 meeting, Board of Trustees

REPOR OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$145,368.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Imidazoline Analogs as Probes of A-Adrenoceptors, College of Pharmacy (D. D. Miller, P. N. Patil and D. R. Feller), 1 August 1988 through 31 July 1989. (Project 763483 - Continuation)

$137,367.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Amphibian Limb Regeneration Blastema Antigens, Department of Molecular Genetics (R. A. Tassava), 1 July 1988 through 30 June 1989. (Project 766132 - Continuation)

$130,442.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cholinergic Systems and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) Neurotoxicity, Department of Pharmacology (N. H. Neff and M. H. Neff), 1 July 1988 through 30 June 1989. (Project 766209 - Continuation)

$127,000.00 - National Science Foundation, Washington, D.C., Formation of Hybrid Natural Products by Interspecies Cloning of Streptomyces, Department of Microbiology (W. R. Strohl), 1 September 1988 through 31 August 1989. (Project 765635 - Continuation)

$126,066.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Arterial Morphology and Fluid Mechanics in Elastic Casts, Engineering Experiment Station (M. H. Friedman), 1 July 1988 through 30 June 1989. (Project 766886 - New)

$122,232.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Structural Functional Studies of Neutrophil Activation, Department of Anatomy (J. M. Robinson), 1 August 1988 through 31 July 1989. (Project 766929 - New)

$120,142.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemical Studies of Arsenite Oxidase and Sulfite Oxidase, Department of Physiological Chemistry (C. R. Hille), 15 July 1988 through 30 June 1989. (Project 766908 - New)

$116,827.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Training in Community Management of EDMR Children, Nisonger Center (D. Hammer) and Department of Pediatrics (J. A. Mulick), 1 July 1988 through 30 June 1989. (Project 765745 - Continuation)

$112,655.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Anterior Cruciate Ligament Reconstruction, Department of Mechanical Engineering (N. Berme) and Department of Surgery (S. R. Simon), 1 August 1988 through 31 July 1989. (Project 766933 - New)
Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Agency</th>
<th>Department/Institute</th>
<th>Project Description</th>
<th>Dates</th>
<th>Grants Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>$94,945.00</td>
<td>Department of Health and Human Services</td>
<td>National Institutes of Health, Bethesda, MD</td>
<td>Colorant Formulation of Polymeric Prosthetic Materials,</td>
<td>1 July 1988 through 30 June 1989</td>
<td>New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Restorative and Prosthetic Dentistry (W. M. Johnston)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$91,061.00</td>
<td>Department of Health and Human Services</td>
<td>National Institutes of Health, Bethesda, MD</td>
<td>Uteroferrin Gene Expression During Fetal and Placental</td>
<td>1 July 1988 through 30 June 1989</td>
<td>Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Development, Department of Animal Science - OARDC (R. C. M. Simmen)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$84,902.00</td>
<td>Department of Health and Human Services</td>
<td>National Institutes of Health, Bethesda, MD</td>
<td>Deoxyuridine Metabolism in Herpes Labialis, Department of Microbiology and Immunology (M. V. Williams),</td>
<td>1 July 1988 through 30 June 1989</td>
<td>Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$80,546.00</td>
<td>Department of Health and Human Services</td>
<td>National Institutes of Health, Bethesda, MD</td>
<td>Feline Retrovirus Associated Intestinal Dysfunction,</td>
<td>15 July 1988 through 30 June 1989</td>
<td>New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Department of Veterinary Pathobiology (L. E. Mathes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$80,300.00</td>
<td>National Science Foundation, Washington, DC</td>
<td></td>
<td>Gaseous and Aqueous Corrosion of Ceramics, Department of Ceramic Engineering (D. W. Readey),</td>
<td>1 July 1988 through 31 December 1989</td>
<td>Continuation</td>
</tr>
<tr>
<td>$79,857.00</td>
<td>Department of Health and Human Services</td>
<td>National Institutes of Health, Bethesda, MD</td>
<td>Calcium and Calmodulin in Smooth Muscle Contraction,</td>
<td>1 July 1988 through 30 June 1989</td>
<td>Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Department of Physiological Chemistry (J. D. Johnson),</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$76,294.00</td>
<td>Department of Health and Human Services</td>
<td>Public Health Service, Alcohol, Drug</td>
<td>Alcohol, Drug Abuse and Mental Health Administration,</td>
<td>1 August 1988 through 31 July 1989</td>
<td>Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Abuse and Mental Health Administration,</td>
<td>Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver),</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$75,208.00</td>
<td>Department of Health and Human Services</td>
<td>National Institutes of Health, Bethesda, MD</td>
<td>Endothelial Pleomorphism From Contact Lenses, College of Optometry (J. P. Schoessler),</td>
<td>1 August 1988 through 31 July 1989</td>
<td>Continuation</td>
</tr>
<tr>
<td>$69,776.00</td>
<td>National Science Foundation, Washington, DC</td>
<td></td>
<td>Fluid Flow and Cleanliness of Steel in Continuous Casting Tundishes, Department of Metallurgical Engineering (Y. Sahai),</td>
<td>1 July 1988 through 30 June 1989</td>
<td>Continuation</td>
</tr>
</tbody>
</table>
Federal Research Contracts/Grants (contd)

$68,560.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Role of Polyamines in Calmodulin and C-Kinase Regulation, Periodontology (J. D. Walters), 1 July 1988 through 30 June 1989. (Project 765508 - Continuation)


$60,000.00 - National Science Foundation, Washington, D.C., Photon- and Electron-Molecule Collisions and Molecular Resonance Phenomena, Department of Chemistry (C. W. McCurdy), 1 July 1988 through 31 January 1990. (Project 765573 - Continuation)

$59,551.00 - Department of the Navy, Naval Material Command, China Lake, California, Ram and Inlet Modeling: Compact Range Scattering, Department of Electrical Engineering, ElectroScience Laboratory, (P. Pathak and W. D. Burnside), 1 July 1988 through 30 June 1989. (Project 764991 - Continuation)

$56,981.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Terrestrial Gravity Data Analysis for Interim Gravity Model Improvement, Department of Geodetic Science and Surveying (R. H. Rapp), 1 September 1988 through 31 August 1989. (Project 765353 - Continuation)


$51,499.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Proficiency-Oriented Materials for Arabic, Department of Judaic and Near Eastern Languages and Literatures (F. J. Cadora), 1 July 1988 through 30 June 1989. (Project 766882 - New)

$50,000.00 - United States Information Agency, Washington, D.C., Cultural Change in Its Historical Context, Office of International Affairs (C. Zacher) and Department of Romance Languages and Literatures (L. Farina), 1 August 1988 through 30 September 1991. (Project 766927 - New)

$49,960.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Maternal Growth Factors in Neonatal Growth, Department of Animal Science - OARDC (F. A. Simmen), 1 July 1988 through 30 June 1989. (Project 765566 - Continuation)
Federal Research Contracts/Grants (contd)

$49,040.00 - National Science Foundation, Washington, D.C., Behavioral and Neural Plasticity in the Developing Brain, Department of Psychology (J. P. Bruno), 1 September 1988 through 31 August 1989. (Project 766304 - Continuation)

$43,500.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, College of Medicine - Administration (D. G. Cornwell), 15 July 1988 through 30 June 1989. (Project 766936 - New)

$40,000.00 - National Science Foundation, Washington, D.C., Highly-Excited States of Atoms and Molecules, Department of Physics (R. D. Knight), 15 July 1988 through 30 June 1989. (Project 766887 - New)

$35,000.00 - National Science Foundation, Washington, D.C., Mathematical Sciences Research Equipment, Department of Mathematics (J. C. Ferrar), 1 July 1988 through 31 December 1989. (Project 766898 - New)

$34,065.00 - Department of Agriculture, Forest Service, Princeton, West Virginia, Technology Diffusion in the Secondary Hardwood Manufacturing Sectors, Department of Natural Resources - OARDC and School of Natural Resources (J. A. Maxwell) and Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (J. Havlicek), 1 July 1988 through 30 June 1990. (Project 766916 - New)


$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (D. L. Cox), 1 July 1988 through 31 December 1989. (Project 766937 - New)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Mathematics (K. Rubin), 1 August 1988 through 31 January 1990. (Project 766905 - New)


$19,750.00 - Department of Agriculture, Economic Research Service, Washington, D.C., Japanese Auto Plants in the United States and Rural Jobs, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (M. F. Kenney), 1 July 1988 through 30 September 1989. (Project 766889 - New)
$18,463.00 - National Science Foundation, Washington, D.C., Velocity Distributions of Suspensions of Large Food Particles During Continuous Sterilization in Holding Tubes, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (S. K. Sastry), 1 July 1988 through 31 December 1989. (Project 766458 - Continuation)

$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., Nonlinear Analysis of Boundary Layers with Streamwise Varying Properties, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 August 1988 through 31 July 1989. (Project 766897 - New)

$14,494.00 - National Science Foundation, Washington, D.C., Multilinear Analysis of Spectroscopic Data, Department of Statistics (S. E. Leurgans) and Department of Biochemistry (R. T. Ross), 15 July 1988 through 31 December 1989. (Project 766885 - New)

$13,022.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Composite Thorax Rib Development, Department of Mechanical Engineering (J. A. Collins), 1 June 1988 through 31 December 1988. (Project 766928 - New)

$11,300.00 - National Science Foundation, Washington, D.C., Group Travel to the DIMETA-88 Conference, Department of Metallurgical Engineering (P. G. Shewmon), 15 July 1988 through 30 June 1989. (Project 766940 - New)

$10,000.00 - Department of the Navy, Naval Material Command, China Lake, California, Ram and Inlet Modeling: Compact Range Scattering, Department of Electrical Engineering, ElectroScience Laboratory (P. Pathak and W. D. Burnside), 1 July 1988 through 30 June 1989. (Project 764991 - Continuation)

$9,980.00 - Department of the Army, Army Corps of Engineers, Fort Belvoir, Virginia, Kinematic Surveying with Global Positioning System (GPS), Department of Geodetic Science and Surveying (C. G. Goad), 11 July 1988 through 30 June 1989. (Project 766888 - New)

$9,705.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, College of Dentistry - Administration (M. C. Whitehead), 1 July 1988 through 30 June 1989. (Project 766899 - New)

$6,065.00 - Department of the Navy, Naval Postgraduate School, Monterey, California, Compressive Strength Advanced Composite Cylinders, Department of Aeronautical and Astronautical Engineering (N. Sarigul), 8 July 1988 through 7 August 1988. (Project 766883 - New)

$6,000.00 - National Science Foundation, Washington, D.C., Design and Management of Flexible Electronic Assembly Systems, Department of Industrial and Systems Engineering (W. E. Wilhelm), 30 June 1988 through 30 November 1988. (Project 764982 - Continuation)
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$3,183.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Syntactic and Interpretive Processes in Coreference, Department of Linguistics (R. W. Cowart), 1 March 1988 through 28 February 1989. (Project 765967 - Continuation)

Personnel Services - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1988 through 30 June 1989. (Project 766340 - Continuation) (Approximate Dollar Value - $37,500)

TOTAL - FEDERAL AWARDS $6,067,057.00

State of Ohio Research Contracts/Grants

$150,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Center for Labor-Management Cooperation (Labor-Management Partnership Program), Academic Faculty of Management and Human Resources (D. B. Patton, W. D. Todor and H. R. Bobbitt, Jr.), 1 July 1988 through 30 June 1989. (Project 766870 - Continuation)

$146,884.87 - State of Ohio, Department of Education, Columbus, Ohio, Center for Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. L. Mangum), 1 July 1988 through 30 June 1989. (Project 766869 - Continuation)


$7,500.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, The Educated Citizen and the University of the Future, Department of History and Center for Comparative Studies in the Humanities (M. R. Waldman), 6 December 1986 through 29 October 1987. (Project 765982 - Continuation)

$4,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, The Right to Literacy, Department of English (A. A. Lunsford), 1 June 1988 through 30 September 1988. (Project 766938 - New)

TOTAL - STATE OF OHIO AWARDS $ 332,384.87

Industrial Research Contracts/Grants

Industrial Research Contracts/Grants (contd)


$46,332.00 - Bausch and Lomb, Rochester, New York, Vision Research Fellowship, Department of Ophthalmology (C. G. Kelley), 1 July 1988 through 30 June 1989. (Project 766918 - New)

$24,000.00 - Brunswick Corporation, Marion, Virginia, Hybrid Radome Research Studies, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 1 October 1987 through 30 September 1988. (Project 765697 - Continuation)

$20,000.00 - Mobil Research and Development Corporation, Paulsboro, New Jersey, In-situ Zeolite Crystallization and Spectroscopic Characterization, Department of Chemistry (P. K. Dutta), 1 June 1988 through 31 May 1989. (Project 766931 - New)

$13,000.00 - Burroughs Wellcome, Research Triangle Park, North Carolina, Purine Analogue-Induced CellDifferentiation and Queuine Hypomodification of tRNA, Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 April 1988 through 31 March 1989. (Project 766921 - New)

$13,000.00 - Church and Dwight, Inc., Princeton, New Jersey, Digestibility of Typical Dairy Diets Supplemented with Various Feed Fats, Department of Dairy Science - OARDC and Department of Dairy Science (D. L. Palmquist), 1 June 1988 through 31 December 1988. (Project 766904 - New)

$9,600.00 - Polymer Technology Corporation, Wilmington, Massachusetts, The Evaluation of High Oxygen Flux Gas Permeable Contact Lens Design, College of Optometry (G. J. Andrasko), 1 July 1988 through 30 November 1988. (Project 766895 - New)

$2,500.00 - Stuart Pharmaceuticals, Wilmington, Delaware, A Multicenter Comparison of Zoladex Depot and Surgical Castration in Metastatic Prostrate Carcinoma, Department of Surgery (J. R. Drago), 1 September 1985 through 31 October 1988. (Project 765067 - Continuation)

$1,000.00 - Chartwell Technologies, Inc., Columbus, Ohio, Bioequivalence Studies on Sustained Release Formulations, Department of Preventive Medicine (M. L. Moeschberger), 1 May 1988 through 31 July 1988. (Project 766893 - New)

$600.00 - Boeing Aerospace Company, Seattle, Washington, Compact Range Performance Analyses, Department of Electrical Engineering, ElectroScience Laboratory (J. D. Young), 1 July 1988 through 31 July 1988. (Project 766894 - New)
Industrial Research Contracts/Grants (contd)

$451.21 - The Feed Store, Columbus, Ohio, Comparison of Milk Replacer Versus Whole Milk in Dairy Calves, Department of Dairy Science - OARDC, Department of Dairy Science, and Cooperative Extension State Operations (D. Zartman), 1 July 1988 through 31 December 1988. (Project 766907 - New)

**TOTAL - INDUSTRIAL AWARDS** $317,856.21

Other Non-Federal Research Contracts/Grants

$350,180.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1988 through 30 June 1989. (Project 760113 - Continuation)

$247,797.00 - University of Pennsylvania, Philadelphia, Pennsylvania, Conducting Electronic Polymers by Non-Redox Processes Synthesis, Physical Studies, and Application, Department of Physics (A. J. Epstein), 1 June 1988 through 31 March 1989. (Project 765670 - Continuation)

$146,000.00 - Healthcare Financial Management Association, Westchester, Illinois, The Development of a Financial Service for the Hospital Industry, Hospital and Health Services Administration (W. O. Cleverley), 1 July 1988 through 30 June 1989. (Project 761794 - Continuation)

$125,000.00 - Getty Center for Education in the Arts, Los Angeles, California, The Ohio Partnership for Visual Arts: Regional Institute for Educators, Department of Art Education (N. MacGregor) and Department of Educational Policy and Leadership (A. D'Costa), 1 April 1988 through 31 March 1993. (Project 766784 - New)


$55,000.00 - Columbus Metropolitan Housing Authority, Columbus, Ohio, Community Enablement Program, Department of Communication (J. J. Pilotta), 1 July 1988 through 30 June 1989. (Project 766878 - New)

$46,322.00 - National Foundation for Ileitis and Colitis, New York, New York, Inflammatory Bowel Disease (IBD) and Diarrhea: Role of Oxy-radicals in Intestinal Secretion, Department of Internal Medicine (T. S. Gaginella), 1 October 1988 through 30 September 1989. (Project 766881 - New)

$35,000.00 - American Lung Association, New York, New York, Oxidant Injury in the Adult Respiratory Distress Syndrome (ARDS), Department of Internal Medicine (W. B. Davis), 1 July 1988 through 30 June 1989. (Project 765375 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$35,000.00 - Gleason Memorial Fund, Rochester, New York, Personal Computer Based Array Processing System for Finite Element Analysis, Department of Mechanical Engineering (H. R. Busby), 1 July 1988 through 30 June 1989. (Project 766934 - New)

$34,433.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, The Indonesia Second University Development Project -- JMO Support Office, Office of International Affairs (D. G. McCloud), 27 January 1987 through 31 December 1991. (Project 766028 - Continuation)


$25,000.00 - American Lung Association, New York, New York, Edward Livingston Trudeau Scholar Award, Department of Internal Medicine (J. E. Gadek and G. C. Kindt), 1 July 1988 through 30 June 1989. (Project 766912 - New)


$20,000.00 - Texas A&M University, College Station, Texas, Cretaceous-Paleogene Foraminiferal Biostratigraphy, Biogeography, and Stable Isotope Geochemistry, Department of Geology and Mineralogy (P. N. Webb), 1 July 1988 through 30 June 1989. (Project 766914 - New)

$19,000.00 - Ohio Cancer Research Associates, Columbus, Ohio, Molecular Lesion of Sq-Chromosome in Acute Non-Lymphocytic Leukemia (ANLL) Patients, Department of Internal Medicine (I. M. Chiu), 1 July 1988 through 30 June 1989. (Project 766910 - New)

$18,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Vascular Response to Inotropes in Animals with an Artificial Heart, Department of Surgery (K. D. Murray and L. K. Kalanges), 1 July 1988 through 30 June 1989. (Project 766879 - New)

$17,100.00 - Ohio Cancer Research Associates, Columbus, Ohio, Importance of the HMPS Pathway in the Metabolism of Tumor Tissue, Department of Internal Medicine (A. L. Sagone), 1 July 1988 through 30 June 1989. (Project 766923 - New)
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$16,780.00 - American Lung Association of Ohio, Columbus, Ohio, The Role of Work Related Factors and Coping Responses in Tobacco Abstinence, Department of Life Span Process (M. E. Wewers), 1 July 1988 through 30 June 1989. (Project 766237 - Continuation)

$15,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Diastolic Function in Cardiac Transplant Recipients and Its Relation to Allograft Rejection, Department of Internal Medicine (P. F. Binkley and A. Z. Farhat), 1 July 1988 through 30 June 1989. (Project 766924 - New)

$15,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Calcium Dynamics and Contractile Activity in Ventricular Myocytes of Normal and Cardiomyopathic Rats, Department of Physiology (B. T. Stokes) and Department of Internal Medicine (D. L. Groden), 1 July 1988 through 30 June 1989. (Project 766872 - New)

$14,350.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Characteristics of Voltage-Gated Calcium Channels in Human Ventricular Myocytes, Department of Pharmacology (J. J. Enyeart), 1 July 1988 through 30 June 1989. (Project 766890 - New)

$10,000.00 - American Agricultural Economics Association, Ames, Iowa, Priority Data on Agricultural and Rural Areas: A Survey of Agricultural and Rural Social Scientists, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak) and Department of Agricultural Economics and Rural Sociology (W. S. Chern and L. Tweeten), 1 April 1988 through 31 December 1989. (Project 766867 - New)

$9,000.00 - Fight for Sight, Inc., Baltimore, Maryland, Excitatory Amino Acids and Diabetic Retinopathy, Department of Pharmacology (M. H. Neff), 1 July 1988 through 30 June 1989. (Project 766890 - New)

$7,475.00 - North Atlantic Treaty Organization, Brussels, Belgium, Centrifugal Instabilities in Flow Between Partially Filled Horizontal Rotating Cylinders, Department of Physics (C. D. Andereck), 1 July 1988 through 30 June 1989. (Project 766932 - New)

$7,000.00 - United Way Fund of Union County, Inc., Marysville, Ohio, Needs Survey in Union County, Department of Agricultural Economics and Rural Sociology - OARDC, Department of Agricultural Economics and Rural Sociology, and Cooperative Extension State Operations (J. F. Donnermeyer), 1 June 1988 through 31 May 1989. (Project 766903 - New)

September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$6,500.00 - South Carolina State Department of Education, Columbia, South Carolina; State of Ohio, Department of Education, Columbus, Ohio; and Florida Department of Education, Tallahassee, Florida, National Consortium of State Career Guidance Supervisors, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766331 - Continuation)

$5,834.00 - North Atlantic Treaty Organization, Brussels, Belgium, Propagation of Bulk and Surface Waves in Inhomogeneous Porous Materials, Department of Welding Engineering (L. Adler), 1 July 1988 through 30 June 1989. (Project 766892 - Continuation)

$5,000.00 - Cornell University, Ithaca, New York, Design, Prototype, and Debug Mixer-Shaper Boards for CLEO, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1988 through 31 December 1988. (Project 766574 - Continuation)

$4,780.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (M. R. Grever), 1 January 1988 through 31 December 1988. (Project 766915 - New)

$3,353.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study #8829, Department of Otolaryngology (D. E. Schuller), 1 January 1988 through 31 December 1988. (Project 766915 - New)


$2,423.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1988 through 31 December 1988. (Project 763118 - Continuation)

$2,000.00 - Ohio Dairy Goat Association, Galena, Ohio, Somatic Cell Counts in Goats: Is Caprine Arthritis Encephalomyelitis Virus a Factor?, Department of Veterinary Clinical Sciences (B. L. Hull), 1 July 1988 through 30 June 1989. (Project 766911 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $1,465,048.00
Industrial and Other Sponsored Research and Development

$100,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Range R&D Consortium, Department of Electrical Engineering. (312884)

$64,658.00 - AITRC, Columbus, OH, "General Hierarchy Exploration Tool for On-Line Bibliographic Information Retrieval," Department of Industrial and Systems Engineering, 1 April 1988 through 31 December 1988. (529763)


$32,000.00 - Lockheed-California Company, Burbank, CA, "Wind Tunnel Tests," Department of Aeronautical and Astronautical Engineering, 1 March 1988 through 31 December 1988. (312464)

$30,000.00 - General Electric, Cincinnati, OH, "Capacitor-Discharge Welding of Titanium Metal Matrix Composites," Department of Welding Engineering, 13 June 1988 through 10 December 1988. (312462)

$20,131.00 - from 13 sponsors of 20 development projects in 2 research areas of the College.

$20,000.00 - from various industry for Associate Membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)


$15,000.00 - Edison Welding Institute, Columbus, OH, "Zirconia to Metal Brazing," Department of Ceramic Engineering, 1 June 1988 through 31 December 1988. (312463)

$2,000.00 - from industry for an Affiliate Membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 358,547.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds

A. B., Dolly and Ralph Cohen Scholarship Fund

The A. B., Dolly and Ralph Cohen Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the A.B., Dolly and Ralph Cohen Foundation, transferred from The Ohio State University Scholarship Fund.
Establishment of Named Funds (contd)

A. B., Dolly and Ralph Cohen Scholarship Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship support for one or more qualified students enrolled at The Ohio State University. Selection of the scholarship will be made by the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

The Freeman S. Howlett Memorial Fellowship Fund

The Freeman S. Howlett Memorial Fellowship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with a bequest to The Ohio State University Development Fund from Jean W. Howlett, Wooster, Ohio, widow of Freeman S. Howlett, distinguished faculty member and chairperson of the Department of Horticulture.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees at The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more graduate fellowships in the Department of Horticulture at The Ohio State University. Preference shall be given to well-qualified foreign students who intend to pursue careers of teaching or research in horticulture. The selection is to be made after consultation with the Chairperson of the Department of Horticulture at The Ohio State University and a member of the Department of Horticulture at the Ohio Agricultural Research and Development Center, in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for the College of Agriculture, in order to carry out the desire of the donor.
Establishment of Named Funds (contd)

The Helen Simpson Lambacher Fund

The Helen Simpson Lambacher Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund, transferred from the Cramblett Education and Research Fund as requested by the Dean of the College of Medicine, to support the work of the chairholder of The Henry G. Cramblett Chair in Medicine and to honor the late Mrs. Helen Simpson Lambacher (B.S.Ed. '33) of Venice, Florida.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be distributed to the Department of Pediatrics in the College of Medicine to support the scholarly efforts of the holder of The Henry G. Cramblett Chair in Medicine in achieving excellence in patient care, teaching, and research through the joint efforts of Children's Hospital and The Ohio State University.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate dean, department chair, or program administrative office in order to carry out the program's objective.

The Ralph L. Boyer Award for Excellence in Engineering Instruction Fund

The Ralph L. Boyer Award for Excellence in Engineering Instruction Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University from the estate of Ralph L. Boyer (B.M.E. '24) of Mount Vernon, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income and, if appropriate, the principal shall be used to provide one or more awards to members of the faculty of the College of Engineering of The Ohio State University deserving of commendation for their work in their field of instruction. The Dean of the College of Engineering, in consultation with the Dean's Council, shall determine whether awards are to be made, the number of awards to be made, and the amount to be awarded to recipients.

It is the desire of the donor that this fund should benefit the University in perpetuity and that no part of the corpus or income of this
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Ralph L. Boyer Award for Excellence in Engineering Instruction Fund (contd)

fund be used for any of the other colleges of The Ohio State University or any other purpose except as herein specified. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

The William J. Marks Pharmacy Memorial Scholarship Fund

The William J. Marks Pharmacy Memorial Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Mrs. Libby Marks in memory of William J. Marks (B.S.Pharm. '36) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to assist students in the College of Pharmacy who have demonstrated a high level of academic achievement. The selection of the award recipients shall be made by the appropriate College of Pharmacy faculty committee in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

The Valerie Helsel Scholarship Fund

The Valerie Helsel Scholarship Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from friends and co-workers in memory of Valerie Helsel (B.A. '85) of Worthington, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide a scholarship award for an Ohio State University Hospitals employee who wishes to further his/her education. The funds may be used for whatever purpose the employee requires, i.e., books, babysitting fees, etc. Selection of the recipient shall be made by the University Committee on Student Financial Aid.
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Valerie Helsel Scholarship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative officer in order to carry out the desire of the donors.

The James F. Fullington Memorial Fund

The James F. Fullington Memorial Fund was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Emma Courtright Fullington (B.A. '18, M.A. '19) in memory of her husband, James F. Fullington, Professor Emeritus (B.A. '16, M.A. '23, Ph.D. '30).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the benefit of the College of Humanities, as determined by the Board of Trustees, with preference afforded to the recommendations of the Dean of said College.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

Change in Description of Named Fund

The William J. Skou Scholarship Fund

The William J. Skou Scholarship Fund was established May 7, 1982, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of William J. Skou (B.S.Agr. '50, M.S. '51) of Akron, Ohio. The description was changed September 2, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income (over and above what must be added to the principal to offset the annual inflation rate) is to be used to provide one or more scholarships for students entering or continuing in the field of
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

The William J. Skou Scholarship Fund (contd)

Floriculture and/or Greenhouse Production of flowers or ornamentals. Selection of recipient(s) is to be made upon the recommendation of a committee comprised of the Chairperson, Department of Horticulture (Columbus Campus), the Director of the Agricultural Technical Institute, and Dean of the College of Agriculture, with the latter serving as Chairperson. (Designees of these officers may serve as the recommending committee.) Further, of the annual income available for distribution, 50% will be used for scholarship recipients at The Ohio State University Columbus Campus and the remaining 50% of the income for scholarship recipients at The Ohio State University Agricultural Technical Institute Campus. Only students in the upper third of their graduating high school class, and without regard to their parents' income level, can be selected to receive the primary scholarships. Income designated for use by The Ohio State University Columbus Campus which is unused for undergraduate scholarships may be converted for use as a graduate associateship in the field of Floriculture and/or Greenhouse Production of flowers or ornamentals with the approval of the selection committee (or designated representatives) and upon recommendation of the Floriculture Faculty (Department of Horticulture, Columbus Campus).

Should the need for these scholarships cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees of the University with preference given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for floriculture education at either the Columbus Campus or at the Agricultural Technical Institute.

--0--

EMPLOYMENT OF AN ARCHITECT
NEUROPSYCHIATRIC FACILITY

Resolution No. 89-25

Synopsis: Authorization to employ an architectural firm for the Neuropsychiatric Facility project is proposed.

WHEREAS a new neuropsychiatric facility is being planned to provide for the highest quality of psychiatric inpatient care in accordance with current precepts of treatment and for teaching and research; and

WHEREAS this project will provide for the demolition of a portion of Upham Hall and the replacement of beds currently located in Upham Hall; and

WHEREAS $1,050,000.00 will be made available from University Hospitals for this project:
September 1 and 2, 1988 meeting, Board of Trustees

EMPLOYMENT OF AN ARCHITECT
NEUROPSYCHIATRIC FACILITY (contd)

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, within established University procedures, to select a qualified architectural firm to prepare the plans and specifications for this project, and that the fees for this service be negotiated between the firm selected and the University with such action to be reported to this Board at the appropriate time.

Upon motion of Mr. Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST FOR CONSTRUCTION BIDS
AMERIFLORA '92 BIOCONTAINMENT FACILITY

Resolution No. 89-26

Synopsis: Authorization to employ an architectural/engineering firm and request construction bids for the AmeriFlora '92 Biocontainment Facility project is proposed.

WHEREAS the City of Columbus will be hosting AmeriFlora '92 and is in need of a specialized support facility for receiving, inspecting, monitoring, maintaining and growing plant material for this international exposition; and

WHEREAS this project will provide for a greenhouse/outdoor nursery complex, an inspection quarantine complex, and a service dock area to provide for delivery and handling of plant material, equipment, and supplies; and

WHEREAS the entire facility will be a high security area with perimeter fencing and an electronic security system to assure protection and containment of all plants maintained within the facility complex; and

WHEREAS at the conclusion of the AmeriFlora '92 exposition, this facility will belong to The Ohio State University and be used to support research and teaching programs of the College of Agriculture; and

WHEREAS funds in the amount of $2,225,000.00 have been appropriated to the University for this project by Amended House Bill 810 (the 1988-90 Capital Appropriations Bill) enacted by the 117th Ohio General Assembly:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select a qualified architectural/engineering firm for this project, in conjunction with the Department of Administrative Services, and that the fees for this service be negotiated between the firm selected and the Department of Administrative Services, Division of Public Works; and
September 1 and 2, 1988 meeting, Board of Trustees

EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
AMERIFLORA '92 BIOCONTAINMENT FACILITY (contd)

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REQUEST FOR CONSTRUCTION BIDS
HAMILTON HALL RENOVATION
Resolution No. 89-26

Synopsis: Authorization to request construction bids for the Hamilton Hall Renovation project is proposed.

WHEREAS planning funds in the amount of $400,000.00 were appropriated by Amended Substitute House Bill 552, (the 1981-82 Capital Improvements Bill) for the employment of an architectural firm for the Hamilton Hall Renovation project, and this action was approved by this Board on July 10, 1981, with the architectural firm of Richard Trott & Partners subsequently being selected to design this project; and

WHEREAS Substitute House Bill 870 (the 1986-88 Capital Appropriations Bill) appropriated $10,100,000.00 for the renovation of the south and east portions of Hamilton Hall, and this project was approved by this Board on July 11, 1986; and

WHEREAS Amended House Bill 810 (the 1988-1990 Capital Appropriations Bill) has appropriated an additional $7,381,000.00 for the renovation of the north wing of Hamilton Hall; and

WHEREAS this project will provide a complete renovation of Hamilton Hall to house the Department of Physiology, a merged Department of Biochemistry and Physiological Chemistry, and six anatomy faculty, morgue, and dissection laboratories; and

WHEREAS funds in the total amount of $17,481,000.00 have been allocated for the construction of this project:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts, with all actions to be reported to this Board at the appropriate time.
September 1 and 2, 1988 meeting, Board of Trustees

REQUEST FOR CONSTRUCTION BIDS
HAMILTON HALL RENOVATION (contd)

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST – FUNDING

Resolution No. 89-27

Synopsis: Authorization to request construction bids is proposed.

WHEREAS the plans and specifications for the following project have been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

DOAN HALL - Chiller Station Renovation

Project: Due to the Medical Logistical (Infill) project currently under construction adding additional floors of Doan Hall, the present air cooled chiller plant located in Room N302 of Doan Hall must be relocated, once temporarily and then permanently. This project will avoid the two relocations by eliminating the reciprocating air cooled chiller plant and providing chilled water for the critical Computer Room air conditioning from the Doan Hall penthouse by installing two chilled water pipes from the 12th floor to the 3rd floor.

Funding: University Hospitals Funds

Estimated Construction Cost: $165,000.00

Estimated Project Cost: $210,000.00

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 89-28

Synopsis: Contracts have been awarded for the projects listed below to
the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings
authorized the President and/or Vice President for Business and Adminis-
tration to sign the plans and specifications and, in accordance with
established University procedures, to request bids and, if satisfactory
bids were received, to recommend the award of contracts for the following
projects: Ohio Stadium - Refinish Exposed Structural Steel; Roof
Replacements (Supplemental) - McCracken Power Plant and Parks Hall,
Masonry Repairs - McCracken Power Plant; Dairy Barn Improvements - Ohio
Agricultural Research and Development Center; Pavement Repairs and
Asphalt Overlay - Lima Regional Campus:

Ohio Stadium - Refinish Exposed Structural Steel

Description: This project provides for the complete removal of all rust
and loose paint, and the repriming and repainting of all exposed
structural steel. Construction began June 27, 1988, and is scheduled to
be completed by August 31, 1988.

General Contract

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>June 9, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>6</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$470,501.00*</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$1,105,519.64*</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$771,985.00*</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>Martin Construction, Columbus, OH</td>
</tr>
</tbody>
</table>

Total All Contracts: $470,501.00*

Total Contingency Allowance: $56,474.46 (which is 12% of construction
costs)

Total Project Cost: $569,550.00*

Funding: University Funds, Department of Athletics

*Recommended alternates reflected in these figures.
ROOF REPLACEMENTS (SUPPLEMENTAL)
MCCracken POWER PLANT AND PARKS HALL
MASONRY REPAIRS - MCCracken POWER PLANT

Description: This project provides for the removal and replacement of deteriorated roof on McCracken Power Plant and the installation of new drains; the removal of deteriorated roof on Parks Hall and the installation of a new tapered roof insulation system; and the cleaning, repointing and resealing of both inside and outside parapet walls at McCracken Power Plant, including the replacement of any missing mortar in brick joints. Construction is scheduled to begin September 1988 and be completed by January 1989.

General Contract - McCracken Power Plant Masonry
   Date Received:       June 9, 1988
   No. of Bids:        4
   Low Bid:            $ 42,480.00
   High Bid:           $ 82,564.00
   Estimate of Cost:   $ 45,000.00
   Awarded to:         Harold K. Phillips Masonry, Columbus, OH

General Contract - McCracken Power Plant Roof
   Date Received:       June 9, 1988
   No. of Bids:        5
   Low Bid:            $ 114,400.00
   High Bid:           $ 183,000.00
   Estimate of Cost:   $ 155,000.00
   Awarded to:         Industrial First/Bright Co., Columbus, OH

General Contract - Parks Hall Roof
   Date Received:       June 9, 1988
   No. of Bids:        6
   Low Bid:            $ 102,000.00
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

ROOF REPLACEMENTS (SUPPLEMENTAL)
MCCRACKEN POWER PLANT AND PARKS HALL
MASONRY REPAIRS - MCCRACKEN POWER PLANT (contd)

General Contract - Parks Hall Roof (contd)

High Bid: $214,120.00
Estimate of Cost: $180,000.00
Awarded to: Industrial First/Bright Co., Columbus, OH

Total All Contracts: $258,880.00
Total Contingency Allowance: $20,720.00 (which is 8% of construction costs)
Total Project Cost: $281,300.00
Funding: S.B. 386

PAVEMENT REPAIRS AND ASPHALT OVERLAY
LIMA REGIONAL CAMPUS

Description: This project provides for the cleaning and repairing of the existing parking lots and Service Drive, adjusting manholes and applying asphaltic concrete as necessary. Construction is scheduled to begin September 1988 and be completed within fourteen days.

General Contract

Date Received: July 14, 1988
No. of Bids: 2
Low Bid: $76,597.10
High Bid: $78,810.50
Estimate of Cost: $75,019.00
Awarded to: Churchill Construction, Lima, OH

Total All Contracts: $76,597.10
Total Contingency Allowance: $3,829.85 (which is 8% of construction costs)
Total Project Cost: $82,455.59
Funding: S.B. 386

*Contract is in excess of filed estimate of cost; however, the price is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
September 1 and 2, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

DAIRY BARN IMPROVEMENTS
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

Description: This project provides for the removal of existing metal roof, removal and replacement of old, deteriorated sheeting and reinstallation of metal roof. Construction is scheduled to begin September 1988 and be completed by December 1988.

General Contract

Date Received: June 21, 1988
No. of Bids: 2
Low Bid: $ 44,976.00
High Bid: $ 54,943.00
Estimate of Cost: $ 45,376.00
Awarded to: Redy Roof, Lorain, OH

Total All Contracts: $ 44,976.00
Total Contingency Allowance: $ 3,325.68 (which is 7% of construction costs)
Total Project Cost: $ 50,000.00
Funding: S.B. 386

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

SALE OF REAL PROPERTY
20.988 ACRES ON SHIER-RINGS ROAD
DUBLIN, OHIO

Resolution No. 89-29

Synopsis: Sale of 20.988 acres located on Shier-Rings Road at the intersection of Wilcox Road in Dublin, Ohio, is proposed.

WHEREAS in 1977 the Board of Trustees of The Ohio State University acquired 20.988 acres on Shier-Rings Road, located at the intersection of Wilcox Road, in Dublin, Ohio, by gift from the Carol S. Kennedy Trust; and
September 1 and 2, 1988 meeting, Board of Trustees

SALE OF REAL PROPERTY
20.988 ACRES ON SHIER-RINGS ROAD
DUBLIN, OHIO

WHEREAS under the terms of this gift, the property was to be held for long-term gain and proceeds from the sale of the property are to be used for the general support of the University; and

WHEREAS Continental Acquisitions, Inc., has offered to purchase this property for $1,259,280.00 (a price of $60,000.00 per acre); and

WHEREAS the appropriate University officials have determined that this sale of the property is in the best interest of the University and it is the desire of this Board to accept the offer of Continental Acquisitions and to sell all of the Board's right, title, and interest in and to this property:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees of The Ohio State University, to sell all of the University's right, title, and interest in and to the Shier-Rings Road property to Continental Acquisitions, Inc., at a price of not less than $60,000.00 per acre and upon such terms and conditions as are deemed to be in the best interest of the University, with the net proceeds from the sale being deposited in the University Endowment to be used for the general support of the University.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

EMPLOYEE EDUCATION/SELF-IMPROVEMENT PROGRAM
Resolution No. 89-30

Synopsis: Modifications to Employee Fee Authorization Programs are being proposed.

WHEREAS the University encourages regular non-teaching staff members to further their education and self-improvement; and

WHEREAS "regular" employment is defined as employment which is continuous in nature with the University and carries with it the term "regular appointment" and customarily requires the services of an individual on a regularly scheduled and continuing basis; and

WHEREAS since Autumn Quarter 1973 opportunities have been provided to eligible regular non-teaching staff to enroll in course work at the University and receive fee authorization for up to seven credit hours of course work per academic quarter as set forth in Section 2.40 of the University Operating Manual; and

WHEREAS the privilege extended to regular non-teaching staff to enroll as students of the University has been limited and subject to a definitive policy statement; and
EMPLOYEE EDUCATION/SELF-IMPROVEMENT PROGRAM (contd)

WHEREAS upon review of the current policy statement it is recognized that modifications are needed to update the policy:

NOW THEREFORE

BE IT RESOLVED, That effective Autumn Quarter 1988 that regular non-teaching staff eligible for participation in the University's Employee Fee Authorization Program be changed from a $29,000 annual salary cap to an annual salary cap of $42,000; and

BE IT FURTHER RESOLVED, That regular non-teaching staff be eligible for an employee fee authorization for non-degree credit course work not to exceed 42 hours; and

BE IT FURTHER RESOLVED, That this policy amends Board of Trustees' Resolution No. 81-75, dated February 6, 1981.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

DEPENDENT FEE AUTHORIZATION PROGRAM
Resolution No. 89-31

Synopsis: Modification of the Faculty/Staff Dependent Fee Authorization Program is proposed to include the spouse and dependent children of a deceased or retired faculty/staff member and also to include a spouse or dependent child of a regular faculty/staff member who is employed in a part-time capacity.

WHEREAS it is the recommendation of the University's Faculty Compensation and Benefits Committee, the President's Staff Advisory Committee, and the Ad Hoc Committee on Tuition Remission Policies that the Faculty/Staff Dependent Fee Authorization Program be modified to include coverage for the spouse and dependent children of a deceased or retired faculty/staff member and also to include a spouse or dependent child of a regular faculty/staff member who is employed in a part-time capacity; and

WHEREAS the appropriate University's offices and the President's Staff have reviewed the current policy statement:

NOW THEREFORE

BE IT RESOLVED, That effective Autumn Quarter 1988 the spouse and dependent children of a retired or deceased faculty/staff member be eligible to participate in the Faculty/Staff Dependent Fee Authorization Program provided that:

1) The faculty/staff member dies or retires while in the active full-time employment of the University; and

2) The faculty/staff member has completed five or more years of full-time employment with the University; and
September 1 and 2, 1988 meeting, Board of Trustees

DEPENDENT FEE AUTHORIZATION PROGRAM (contd)

3) The initial matriculation of the spouse and/or dependent children commences at The Ohio State University within five years following the death or retirement of the faculty/staff member; and

4) Tuition remission for the spouse ceases upon remarriage; and

5) Tuition remission ceases for any individual upon completion of twelve (12) quarters of study or 200 hours, whichever is greater; and

BE IT FURTHER RESOLVED, That effective Autumn Quarter 1988 the Faculty/Staff Dependent Fee Authorization Program be modified to include the spouse or dependent children of a regular faculty/staff member who is also employed in a part-time capacity.

Upon motion of Mr. Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

COMPLIANCE WITH REGULATIONS OF THE OHIO PUBLIC FACILITIES COMMISSION

Resolution No. 89-32

Synopsis: Authorization for designated officials to submit required documentation to the Ohio Public Facilities Commission and to certify compliance with the Commission's regulations is requested.

WHEREAS pursuant to Chapter 154 of the Revised Code and the regulations of the Ohio Public Facilities Commission, each State institution of higher education, to which funds are appropriated in Amended House Bill 810 enacted by the 117th General Assembly, is required to authorize a designated official to sign and submit to the Ohio Public Facilities Commission documentation required with respect to the individual projects for which funds are appropriated; and

WHEREAS in submitting this documentation each institution is required to permit the Commission to use designated institutional sites for the purpose of these projects and to agree to undertake the performance of the functions and responsibilities of a using governmental agency as provided in the Commission's regulations with respect to such projects:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to complete, sign and submit to the Ohio Public Facilities Commission documentation required by the Commission for any or all of the projects for The Ohio State University provided for or pursuant to the appropriations made under Section 10 of Amended House Bill 810 enacted by the 117th General Assembly; and

BE IT FURTHER RESOLVED, That this Board agrees to permit the Ohio Public Facilities Commission to use designated University sites for the purpose of such projects, the boundaries of which will be shown in the plans for
such projects, for so long as the respective notes, if any, and bonds issued to finance the projects shall be outstanding; and

BE IT FURTHER RESOLVED, That this Board agrees to undertake performance of the functions and responsibilities of a using governmental agency and of a designated governmental agency to the extent it is such as provided in the regulations of the Ohio Public Facilities Commission and any applicable leases, agreements or rules of the Commission with respect to such projects.

Upon motion of Mr. Berry, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

AUTHORIZATION FOR DESIGNATED OFFICIALS TO BUY, SELL, ASSIGN AND TRANSFER SECURITIES, TO DEPOSIT OR WITHDRAW FUNDS FROM BANK ACCOUNTS, AND TO DESIGNATE DEPOSITORIES

Resolution No. 89-33

Synopsis: The reaffirmation of Board of Trustees Resolution No. 87-102 (March 6, 1987), which authorized designated officials to buy, sell, assign and transfer securities, to deposit or withdraw funds from bank accounts held in the name of The Ohio State University, and to designate depositories is requested.

WHEREAS designated officials of the University buy, sell, assign and transfer stocks, bonds and other financial instruments owned by The Ohio State University; and

WHEREAS various financial institutions are designated as depositories for The Ohio State University; and

WHEREAS accounts at various financial institutions are opened and maintained in the name of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That the Vice President for Business and Administration and/or Treasurer be authorized and empowered to buy, sell, assign and transfer any and all stocks, bonds, evidences of interest and/or indebtedness, rights and options to acquire or to sell the same, and all other securities corporate or otherwise, standing in the name of or belonging to The Ohio State University in any capacity; and

BE IT FURTHER RESOLVED, That the Vice President for Business and Administration and/or Treasurer be authorized and empowered to designate various financial institutions as depositories for The Ohio State University and open and maintain accounts at various financial institutions in the name of The Ohio State University; and
AUTHORIZATION FOR DESIGNATED OFFICIALS TO BUY, SELL, ASSIGN AND TRANSFER SECURITIES, TO DEPOSIT OR WITHDRAW FUNDS FROM BANK ACCOUNTS, AND TO DESIGNATE DEPOSITORIES (contd)

BE IT FURTHER RESOLVED, That the Vice President for Business and Administration and/or Treasurer be authorized, on behalf of The Ohio State University and in its name, to sign checks, drafts, notes, bills of exchange, acceptances or other orders for the payment of money from said accounts; to endorse in writing or by stamp checks, notes, bills, certificates of deposit or other instruments owned or held by this University for deposit in said accounts or for collection or discount by said banks; to accept drafts, acceptances, and other instruments payable to said banks; to waive, demand, protest, file notice of protest, or dishonor any check, note, bill, draft or other instrument made, drawn or endorsed by the University.

Upon motion of Ms. Casto, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS
Resolution No. 89-34

Synopsis: Approval for reimbursement of expenses for designated administrative officials is requested.

WHEREAS the Fiscal Affairs Committee has authorized the payment of expenses for designated administrative officials; and

WHEREAS it is deemed in the best interest of the University for the Fiscal Affairs Committee to provide from the unrestricted gifts to the University Endowment Fund on an appropriate basis, to the President and designated University officials, reimbursement for expenditures which are directly and necessarily related to the performance of their assigned responsibilities and in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the Fiscal Affairs Committee be authorized to provide reimbursement to designated University officials from unrestricted gifts to the University Endowment Fund.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

AUTHORIZATION FOR THE TREASURER OF THE UNIVERSITY TO SERVE AS TRUSTEE FOR UNITRUSTS AND ANNUITY TRUSTS
Resolution No. 89-35

Synopsis: The reaffirmation of Board of Trustees Resolution No. 77-22 (September 10, 1976) which authorized the Treasurer of The Ohio State
September 1 and 2, 1988 meeting, Board of Trustees

AUTHORIZATION FOR THE TREASURER OF THE UNIVERSITY TO SERVE AS TRUSTEE FOR UNITRUSTS AND ANNUITY TRUSTS (contd)

University to serve as Trustee for Unitrusts and Annuity Trusts is requested.

WHEREAS The Ohio State University Development Fund has requests from potential donors for the University or its designee to serve as Trustee of charitable remainder unitrusts or charitable remainder annuity trusts, in order to minimize the expense of the trust by not having a bank serve as Trustee:

NOW THEREFORE

BE IT RESOLVED, That the Treasurer of The Ohio State University be and he is hereby authorized to serve as Trustee for any charitable remainder unitrust and charitable remainder annuity trust in which The Ohio State University is the charitable remainder beneficiary; and to execute as Trustee and on behalf of the University, any and all documents approved by University legal counsel, which are required to complete such gifts.

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

APPOINTMENT OF TRUSTEES FOR POOLED INCOME TRUST FUNDS I, II, III AND IV

Resolution No. 89-36

Synopsis: Appointment and reconfirmation of Trustees for Pooled Income Funds I, II, III and IV are recommended.

WHEREAS the Board of Trustees by actions of December 4, 1970, September 10, 1976, September 7, 1979, and November 4, 1983, established Pooled Income Funds I, II, III and IV as convenient means for University benefactors to contribute financial support to the University and at the same time retain income during their lifetime; and

WHEREAS since that time the Board has appointed individuals to serve as Trustees for Pooled Income Funds I, II, III and IV:

NOW THEREFORE

BE IT RESOLVED, That Michael D. Fellows, Weldon E. Ihrig and James L. Nichols are hereby nominated and appointed to serve as Trustees for donors transferring property to the University's Pooled Income Funds I, II, III and IV; each to serve at the pleasure of the Board of Trustees of the University in accordance with the terms of the instruments establishing Pooled Income Funds I, II, III and IV.

Upon motion of Mr. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

168
September 1 and 2, 1988 meeting, Board of Trustees

PROCEDURE FOR SELECTION OF STUDENT TRUSTEES
Resolution No. 89-37

Synopsis: Approval of the procedure for the selection of student trustees is proposed.

WHEREAS the Ohio Legislature has amended Ohio Revised Code Section 3335.02 (A) and enacted Section 3335.02 (B) for the inclusion of students on the Board of The Ohio State University; and

WHEREAS The Ohio State University, through this Board, the administration and student leaders has developed appropriate procedures for the implementation of the State's student trustee plan; and

WHEREAS these procedures will provide the foundation for the orderly installation of Student Trustees on this Board:

NOW THEREFORE

BE IT RESOLVED, The annexed procedures for nominating students to serve on The Ohio State University Board of Trustees be approved.

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

QUARTERLY REPORT - WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
Resolution No. 89-38

RESOLVED, That the quarterly report on the Waivers of Competitive Bidding Requirements, dated April through June 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

---0---

REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO
Resolution No. 89-39

RESOLVED, That the report on the University's Investment Portfolio, dated October 18, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

---0---

Thereupon the Board adjourned to meet Thursday, October 6, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman
Page 171 is blank
Page 172 is blank
THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-FIFTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, October 6 and 7, 1988

The Board of Trustees met at its regular monthly meeting on Thursday, October 6, and Friday, October 7, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * * * *
Minutes of the last meeting were approved.

* * * * *
October 6 and 7, 1988 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on October 6, 1988, at 6:30 p.m. He requested the Secretary to call the roll.


The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions as follows: faculty/staff appointments and reappointments, resignations and terminations, leaves of absence without salary, professional improvement leaves, promotions/tenure, emeritus titles, and medical staff appointments/reappointments.

Upon motion of Mrs. Bowser, seconded by Ms. Casto.

Mr. Immke reconvened the meeting on October 7, 1988, at 9:30 a.m.


Mr. Immke: Dr. Brand, would you please introduce Dr. Huber.

Dr. Brand:

Thank you, Mr. Chairman. Using, as a point of departure, a discussion I had with Mr. Teaford and Mrs. Bowser, the idea occurred that it would be good to have the deans of our colleges come forward to describe programmatically what is being accomplished in the colleges now. And also, to talk about the future planning for the colleges. This is an eminently good idea, and I have taken the liberty to begin that process.

I have invited Dean Joan Huber here today. She is the Dean of the College of Social and Behavioral Sciences, as well as the Coordinating Dean for our five Arts and Sciences Colleges. Let me tell you a little bit about Joan. She has Ohio roots. She was born in Bluffton, Ohio, and her father was a Ph.D. Entomologist with the Agricultural Experiment Station at Wooster. While Joan was in high school, she was captain of the debate team and editor of the school paper, and as a sophomore, placed first in the state world history exam. She is quoted as saying about that accomplishment that it was... "Owing to having a brilliant teacher supply me with the right books and to having acquired a bad case of flu three weeks before the exam so that I had plenty of time to study."

Joan completed her undergraduate education in two years. With evident academic talent, she was admitted to do graduate work at Radcliffe; however, she decided to marry and raise a family. At this point, she also taught at Penn State University in the German department. She said of her experience in teaching German that she learned in the process that, "I did not want to spend the rest of my life teaching the German subjunctive -- it
Dr. Brand: (contd)

changes, but not so fast that you'd notice in your own lifetime." Joan then returned to school and received a Ph.D. from Michigan State in Sociology in 1967. Since that time, she has truly an amazing record of accomplishments in the field of sociology. She is -- and I won't give you the names -- on more editorial boards than I have ever seen. I don't know how she does it all. She is presently President of the American Sociological Association, a three year term starting in 1987. That is the professional organization for sociologists in America. She is the author of numerous books and articles -- the most recent book being, *Sex Stratification, Children, Housework, and Jobs*.

If I might, let me give a few descriptions of Joan as reported by her colleagues in Sociology. This is from a forthcoming article on Joan. She is described as bright, trenchant, a model of professionalism, coin of the realm, and a pioneer of our discipline. Joan Huber is doing a magnificent job with the College of Social and Behavioral Sciences and I would like to give her this opportunity to talk a bit about the College.

Dr. Joan Huber:

Thank you, Myles. I always have a little difficulty believing all that stuff is about me. In any case, I'm very glad to be invited to be here to tell you something about the College of Social and Behavioral Sciences. And in order to enable you to understand this as clearly as I would like you to, I'm going to have to put it in the context of what kinds of things have to happen at a University to enable any dean to be able to brag in anyway about a college. Because a lot of things have happened at Ohio State that have gone the right way in the last few years, and it's made all the difference in the world.

I did not know when I planned to talk about this that you would already know that I was an Ohio native and grew up in a very Ohio State family. I can remember my father saying one time, "They have 10,000 students down there now, that's too big." In any case, my inoculation with Ohio State fever took and I always grew up understanding the importance of beating Michigan. However, after a while I began to ask myself why was it that it was only on the football field that we ever beat Michigan. Now it's true that Michigan is publicly supported and we're land grant, and I have heard people say "Oh, when you're land-grant you have these other obligations and you can't etc., etc., etc." Well, I came here from Illinois at Urbana, which was also land grant, and I'll tell you it didn't get in their way. Well, right now they have some other problems, but it's not because they're land grant. The University of Wisconsin is land grant and it manages to have top departments. Well, I was the Chair of the Sociology Department at Urbana and like most women chairs -- and there aren't very many, and this is why the event occurs -- I had plenty of opportunities to apply for this, that, and the other, because somebody always says, "Oh, we have to have a woman on the list." I always turned those opportunities down. I was not interested in leaving Illinois. It was really a great
October 6 and 7, 1988 meeting, Board of Trustees

Dr. Huber: (contd)

university with a great library, etc., and I was very happy being a department chair. One of my friends from Ohio State called up and said "Oh, Joan, please send in your vita, we need a woman's vita." I said I didn't want to be a dean and I said if I did, why would I want to come to Ohio State? Well, she persisted. So I came for a first interview, and I went back and I said to my friends, "Don't worry, I'm not going to go there." And then I came for the second interview, and something funny happened. I interviewed with Ed Jennings and I had long talks with the Provost, Dieter Haenicke, and I asked them why Ohio State hadn't lived up to the potential that it really had. And I got some good answers. I went home and in the first twenty-four hours after I left here, after that second visit, something funny happened. I heard the drums beating and I knew it was time to march. So I came here.

Well, what was here. The departments of Anthropology, Communication, Economics, Geography, Journalism, Political Science, Psychology, Sociology, and now the Division of Speech and Hearing, and the Lantern. You know, I feel sorry for the people in Journalism. You know the rest of us, when we have students that aren't quite as bright as we would like and they do some dumb things, only the professor knows about it. But if you're in Journalism, everybody knows about it. And they come up and tell Walter Bundy and they make jokes about it. Poor Walter Bundy, who is Director of the School, comes to the executive committee meeting of the College -- well, it's very painful. We all have mixed vibes about journalists, I'm sure. But anyway, the Center for Human Relations Research, a great big research organization that in its salad days brought in $4,000,000 a year, now it's down to $2,000,000, but it's still a lot of money. Why was it this particular set of colleges? Well, the answer goes back to William Oxley Thompson, who in 1909 was afraid that a very populous legislature was going to harm his "theoretical disciplines." So, he stuck his theoretical disciplines in applied colleges. Psychology was in the School of Education, Sociology, Anthropology, Economics, and Geography were all in the School of Commerce and so on, and so on. In 1969 there was a big reorganization and they chopped-up what normally at a smaller university would be Arts and Sciences into five hunks that really make a lot of sense. And in my view it was a very good thing doing the chopping-up. At Illinois for example, we had a College of Arts and Sciences with 96 units reporting to the Dean and that's too much. So that's why we're chopped-up the way we are.

How good were the units in my College when I came here? Well, I'll have to tell you a little bit about the ranking system of the National Academy of Science. It has some good points, it has some bad points, but on the whole its good points outweigh its bad points. The National Academy of Science conducts a survey every so many years. They don't tell you when. I mean the next one is supposed to be in 1992, but the last one was published in 1983. They rank university departments as well as entire universities on the basis of a whole lot of different criteria. The most important single criteria I think is the
ranking of faculty quality. O.k., there's a time lag in these things. For example, if I hired Einstein, Newton and Aristotle tomorrow, it would take about five years for my colleagues across the country to learn that I'd managed to bring this off. On the other hand, if I had already hired them twenty years ago and Berkeley or Chicago got them, it would take about five years for everybody to learn that they'd actually gone. So you can benefit and disbenefit from these lag effects. In any case, Ohio State did not do as well on these National Academy ratings as I would like. The two highest ranking departments in the University were Chemistry and Geography. Geography is, of course, in my College. Psychology was another of the very high ranking departments. But on the whole, we had too many departments that ranked around the medium. Now you can say you don't believe the rankings. Well, you can say you don't believe anything, but I mean this is what passes for university rankings nation-wide. You may not like it, but other people are going to believe them, especially the people at Harvard, Columbia, Berkeley, Indiana, Illinois, and Wisconsin that benefit from these rankings. In short, they did better than we did. As you can tell, I'm nothing if not competitive.

How do you improve a college? Well one way is to have lots of dollars from the top. I mean everybody knows this and faculty, especially weak faculty, can think of nothing else. "The department of so and so would be marvelous, if only we didn't have such a dumb dean, such a dumb provost, and such a dumb president. They will not shower money upon us, and that's why we're so bad." Well pooh on that! I mean money does help, but there are things you can do without money and one of them is to be careful who you hire and terminate your mistakes. Terminating your mistakes is very, very painful. I mean most of these people are the salt of the earth and you live with them as colleagues every day. You grow fond of them and then to say at the end of six years, or whatever, sorry chum you don't measure up. If you think that doesn't hurt -- well, it does hurt a whole lot and it takes guts to do it. In the 1960's and early 70's, when the academic labor market turned around, this is what departments at Illinois and Wisconsin and Indiana were doing and we didn't do enough of that here in enough of our departments.

Another thing you need to do to make a college great is to get more research dollars. This is true of any college any where, any time, because great national universities are dependent on producing knowledge not just transmitting it to students. Now in order to turn a university around, you need a whole bunch of different people in place at the president's level, the provost's level, at every level, so that they are all pushing in the same direction. And Ohio State had that when I came here. It had Ed Jennings. It had Dieter Haenicke, and now it has Myles Brand. So the deans have support going right to the very top to make this a world class university.

Some of the things that we have been able to do in our College in the last couple of years -- for example, we now have the American Political Science Review in the Political Science Department. This is the flagship journal in political science
October 6 and 7, 1988 meeting, Board of Trustees

Dr. Huber: (contd)

published by the American Political Science Association. We have the same thing going with the American Sociological Review in the Department of Sociology. These are things that are coin of the realm in telling other people in one line how a department has changed and how good it is.

But I want to tell you specifically about two opportunities that we've been able to make use of in our College that have enabled the College to make some real strides recently. Both of these opportunities have their background in the computer revolution. This is quite natural and it's probably going to go on. You know the social sciences had their origin in the industrial revolution. The social sciences emerged, unlike the humanities which have been with us for thousands of years, when the pace of social change became so fast -- owing to changing technology -- so fast that the old explanations of how did it come to be so -- who is rich, who is poor, who is the king, who is this, who is that -- those answers simply wouldn't do. And Economics, Sociology, Political Science sprang into being as intellectual attempts to answer those kinds of questions. Now it's therefore not surprising that the computer revolution is changing the face of social science; because other things being equal, if you're going to be good at social science, you've got to be able to count. And what computers enable you do is to count better. Well, the first thrust is in geographical information systems and it occurs in the Department of Geography. The background in Geography had been established twenty-five years ago when Geography very fortunately got a chair, imported from Northwestern, who was of a very quantitative turn of mind, and made our Geography department the most quantitative Geography department in the country. That was one reason that Geography, like Chemistry, was one of the two top ranking departments at Ohio State. This is what enabled them really to do quality work and become visible.

Now what the computer revolution did was to enable the very rapid processing of information, combining data with geographic locations. You can go and look at one of these computers and watch one of these wizards punch buttons and right before your eyes you see this map and then they superimpose vegetation on it, then they superimpose something else on it, and on and on. It has terrific practical applications. For example, one guy in the Geography department -- well, he's now an Associate Provost. The Provost does tend to pick the best people out of these places because he wants good people, too. Anyway this guy's still an active scholar and of course that really helps him in his job in the Provost's office, too. He's studying Brazil because Brazil's agriculture has the potential of destabilizing world agricultural. They are, of all things I didn't know this until two days ago -- in soy bean production. Imagine Brazil -- you know, the home of the Mumba, the Rumba or whatever, Carmen Miranda -- producing soy beans. I mean it makes them sound like Ohio or something. You can develop this information so rapidly that you can get answers to questions that heretofore were unanswerable.
And in passing, let me give you one other example of the kind of thing a computer makes possible in the social sciences. The National Longitudinal Survey of Labor Force Experience now has data on children at time one and time two -- that is, children born to mothers who were interviewed in 1967. For the first time we will have an enormous data set permitting answers to questions on child outcomes. What kind of a home background produces this kind of child. We haven't been able to answer that question before because we had small samples -- you know geographically based, that sort of thing. In any event, this geographic information system thrust started in our Department of Geography in the 1960's. A guy named Hal Mollering was developing it. He was the first one to teach courses in it, but the real effort to get into this area came with an impetuous from the Office of the Provost. And it was because, not surprisingly, a great deal of federal money is available for this kind of thing in Washington.

It was the stimulus of the Provost that got the Department of Geography unanimously to go ahead and hire the number two man in geographic information systems in the United States. I regret to say we made an offer to number one -- I'll be quite honest with you, we lost number one. Those things do happen, but we got number two and that's given us a great push ahead in this particular area. What geographical information systems is doing is forcing universities into consortiums. We're in one with Penn State and Maryland because of the cost of this kind of thing. No one university can bear it alone. It's forcing disciplines to cross lines and merge also because of the cost. You know you can piously say we need more inter-disciplinary this and we need more inter-university cooperation, but there's nothing like the bottom line of dollars to bring this about. When people have to do it, they finally will cooperate. It's very encouraging.

A similar thrust has been going on in the Department of Psychology. And this again goes back to the computer. The computer has permitted a line of inquiry called artificial intelligence -- trying to get the machines to do what we're capable of doing up here. The trick is to get a computer to do these kinds of things and then test it to see whether or not these kinds of events really occur with human beings. Because there's a possibility that the human brain doesn't work like a computer at all. We simply don't know the answer. And yet, using the computer for this sort of thing has enabled a great step forward. Well, a couple of years ago we hired a new chair in Psychology. He came with a reputation for being able to build excellent departments. Our Psychology department had long been one of our greatest departments. But it had gone through some bad days in the 1960's and 70's when money was especially short in Ohio. It lost some real luminaries and it never replaced them. So, it was sort of living on the glories of its past and needed to be pushed ahead. Anyway, the guy who came here to be chair had it in his head that he wanted to move ahead in cognizant psychology, which is psychology's contribution to this whole cognizant science thrust. Well, it so happened that at the time he came here we got a new Provost, and guess what
October 6 and 7, 1988 meeting, Board of Trustees

Dr. Huber: (contd)

should be in his head but an idea of cognizant science thrust for the entire University. It worked like electricity. It's been a marvelous boost for the Department of Psychology.

What I have to emphasize here, though, is the willingness of people in upper administration to let people at the department level take advantage of these developments and move ahead at the right place at the right time and with the right amount of money. We don't always get all the money we want. But whenever our College has somebody who is really great that we want to hire, we have never been turned down by Bricker Hall -- even through good times and bad.

I'll close and give you just a one liner to show you how far we've come. This last year the Department of Psychology hired two people. They were faculty members at Iowa which has been raided -- oh boy, have we ever raided Iowa -- and they both had offers from Berkeley. The Psychology Department at Berkeley has never had a turndown from anybody to whom it made an offer and these people turned down Berkeley and they came here. I understand that the Department Chair at Berkeley was devastated. When I heard this news, I hauled out my Kleenex box and I delicately wiped my eye. So in one line I will tell you we've got to be doing -- I do think by the way that housing costs in Columbus were helpful -- nevertheless, this was the first time that Berkeley ever lost anybody in psychology to whom it made an offer. And it says something for us and our College when we're able to make that kind of offer. Thank you, very much for your time. I hope I haven't exceeded it. I will now shut up, but I would be open for questions if you have any and if there's time.

Mrs. Bowser:

I wouldn't want to compete against you. It's wonderful, your enthusiasm, your command, your intelligence, and your ability.

Dr. Huber:

Well, this is a great university.

Mrs. Bowser:

It is a great university.

Mr. Wexner:

I'm very curious if you have any insights for us, in terms of views on how do we beat the Michigans of the world? One of my concerns as a Trustee is that we begin to think in longer range terms, supporting the Colleges such as yours. We can play a more direct role in supporting your good work. I think getting an insight into your will to win and seeing that you have a vision of success is encouraging. I think we could learn by getting counsel from you on how we can be specifically more supportive.
Dr. Huber:

I don't know enough about the constraints on what you can do, and I know there are plenty. Well, for one thing, were I God, I would provide a better tax base for the University through the legislature. But I'm not God, so I leave that to President Jennings. However, the most important thing to do is back the hiring of top people, and simultaneously we have to keep communicating to faculty that they have an ongoing obligation to get outside research funds and to be willing to terminate those members of their department who didn't do very well. Now, of course, you can't interfere in that kind of thing. You'd make the Lantern, or something like that, with unfavorable publicity.

Mr. Wexner:

Let me respond. I was listening attentively to what you said specifically the last two statements. The Board of Trustees is an effective lobbying force. If we decide collectively or individually we're going to devote our time and resources to lobbying the legislature in support of what the President is doing, I don't think that would be a negative for the University.

Dr. Huber:

That would be very helpful.

Mr. Wexner:

So we can do or attempt to do almost anything. In the area of faculty and how we look at faculty, I would not be bashful to want to review compensation on a College basis and look at turnovers and ratings. I think there are interesting statistics that we could see. I agree with you that the national ratings aren't perfect, but as you were speaking I made a note. I'd be piqued to see a college that rated poorly and then to see what its turnover is like. We have no turnover and we're rated at the bottom. I think that's a good question for me to ask the President and Trustees at a meeting such as this where Deans of the Colleges are coming -- to find out how you are rated, how you think about rotating your staff, and how many positions are you recruiting for, because these aren't Star Wars kinds of questions.

Dr. Huber:

No.

Mr. Wexner:

But it's insightful. Because you know a lot more about how to do your job than I know about how to do my job in relationship to the University.

Dr. Huber:

I think the Board of Trustees could be most helpful if it could persuade the legislature that for Ohio State to be a world class
University, it is going to take a somewhat higher level of support than we have had in the past. And I think it would be helpful if the Board of Trustees truly communicated that we should be a world class University. You know, when I was recruited here the recruitment literature I got said Ohio State is the preeminent university in the State of Ohio. Well, ho, ho, ho. Of course it is! I mean with our size we could squash anybody else. Just with sheer numbers if nothing else. And that's not the right aspiration and I think the legislature should be persuaded that that's the wrong aspiration. I mean Illinois and Wisconsin didn't get great because they wanted to be the greatest thing in Wisconsin, or on the plains of Illinois, or something like that. We have to aspire to be world class and I'm not saying that money can do everything. Nevertheless, there are things that you can't do without money, particularly now that the cost of hiring new people has gone up terrifically because of the cost of supporting them with equipment. The equipment when you hire Nobel Prize -- I forget what it cost to hire our Nobel Prize winner and equipment, but you know you just sort of shutter. Well -- or the Provost shutters for us. Someone has to shutter. But the legislature has to be convinced that this is the kind of hire we should be making. I was just elated when we got a Nobel Prize winner, because that's the kind of one liner you don't have to explain to anybody why it's an important hire. But those kinds of hires cost a lot of money. And I really think that the State of Ohio is not as convinced as I would like to see it convinced that a world class university will help Ohio -- will help the entire state. And I don't want to sell the University -- you know you can't have economic recovery, if you don't have Ohio State being a world class university. How would I know, maybe you can. But you will certainly make it a better place to live by having a great State university. Well, as you can see, I'm very biased.

Mr. Barone:

Your enthusiasm is wonderful. I think it has affected us.

President Jennings:

I think it's important also to emphasize that it does work both ways. One of the things we will be active with is persuading the General Assembly this year on support. But it does work both ways. What we need also to do, if you remember what Joan said, is that we are as good as the faculty we bring in and keep. Those young faculty will be our reputation twenty-five years from now. The critical thing that all of us can do is to support these deans and department heads in insisting that we hire the very best, as defined external to the University, so that somebody at Berkeley is saying, "Yes, they're making good hires" or somebody at Michigan saying, "Yes, they're making hires." We must be certain we have an efficient and active tenure and promotion process so that when we do make mistakes, we can correct those mistakes and get on from there and provide the support to these young people.

It's true we'll hire a Nobel Prize winner once in a while. The
key thing thirty years from now is if Cornell is hiring our Nobel Prize winner. That's why I keep insisting the most significant activity of last year, in terms of faculty, was the five Presidential Young Investigator Awards. And in terms of long term effect, if we get the reputation that we're supporting those young faculty and they're able to compete at that level, then it will catch up. There will be a lag. I have no doubt that today Ohio State is far better in terms of quality than its reputation. I also have no doubt that there are other institutions who are far worse than their reputations. These things do take time, but the key is to get the support and then support these deans and department heads in the hiring and promotion decisions -- that is so critical -- and support the ones that are providing evidence that they are doing their job. One of the reasons Social and Behavior Science does get so much relative support is because we know that those hiring decisions are being done well, and the promotion and tenure decisions are being done well from outside evidence. Not them coming and saying, "we're great." Let me hear what the department says about our folks. There's no question in our industry that the Berkeley example reverberated through the entire psychological community across this nation. There is no doubt everybody in psychology said ah, ha, something is going on at Ohio State. It wasn't just Berkeley that was wringing their hands. It was everybody in the country. And that's where we've got to support our people.

Mr. Teaford:

I think too, Mr. President, that the significant hires are not just because of the President and Provost, good as they are, but because of outstanding Deans, as well. I think you share in that credit.

President Jennings:

That's right. Thank you, Joan. We appreciate your help.

Mr. Immke:

Mr. Teaford, would you present the Foundation Board report.

Mr. Teaford:

At long last I make a report on the Foundation Board Meeting which was held on Friday, October 7, 1988. I think you're pretty much up-to-date on the Campaign, but at the end of September 1988, the Campaign stands at $316.2 million, which is 90% of the $350 million goal. And as you know, we've only completed three of the five years of that. In fact, you may know Douglas Olson, President and Chief Executive Officer of Battelle, was elected for a three year term to the Foundation Board. The Board also reelected Charles Carlson, John Drinko, Richard Leets, John Kessler, John B. McCoy and R. David Thomas to seats on the Board. President Jennings announced that Frederick Ruffner has stepped down as Chair of The Ohio State University Campaign. Mr. Ruffner will continue as a member of...
Mr. Teaford: (contd)

the National Campaign Steering Committee. Richard H. Leet, Executive Vice President of Amoco Corporation in Chicago, has assumed the Campaign Chair. I personally think it is very significant that the Campaign Chair is now someone in Chicago and outside of Ohio, because I think that the next phase of the Campaign is the emphasis outside of Ohio. I think that's very important for us.

Major points of discussion during the Board meeting included Dr. Richard Keates recommendation on behalf of the Laser Subcommittee that the Foundation Board to encourage and support the creation of a Laser Institute at Ohio State, similar in concept to that of the Beckman Laser Institute at the University of California in Irvine. This suggestion is for another inter-disciplinary institute and what the doctor has done is ask that the University decide if that's something they want, and then the Laser Committee of the Foundation Board will go out and find us the money.

Mr. Leet reported that with the Campaign dollar goal so nearly achieved, the National Campaign Steering Committee discussed the need to focus on other goals of the campaign: expanding the University's regional efforts, increasing the role of volunteers, particularly outside of central Ohio, and increasing corporate and foundation involvement in support of the University. The Chair of the Foundation Board will appoint a Corporate Foundation Subcommittee to develop, with the Development Office of Corporate Foundation Relations, a proposal to focus on identification and appropriate solicitation of major corporations and foundations. Mr. Chairman, that completes my report.

Mr. Immke:

Any questions? Thank you, very much. Mr. Barone, you have the report on the Research Foundation.

Mr. Barone:

Mr. Chairman and Board Members, The Research Foundation grants and contracts for the month of August 1988 are shown in the Board Agenda book. We have them there and I think it would be nice if the Board Members once in awhile would go through the entire agenda. There are 135 awards listed which provide a gross income of $14.18 million. Funding for the first two months of the fiscal year (July 1, 1988 to August 31, 1988) is 4% lower than the first two months of the last fiscal year. Given displacements of major awards and the end of the U.S. Government's fiscal year on September 30 funding levels should now be stabilizing and clearer patterns of growth should be emerging. Some highlights of the awards are:

$125,000 - Award from the Ohio Department of Development to Robert E. Bailey, Department of Mechanical Engineering, to support the technical assistance network of the Ohio Technology Transfer Organization (OTTO).
Mr. Barone: (contd)

$107,000 - Award from the Office of Naval Research to Laszlo Adler, Welding Engineering, to support research on the investigation of ultrasonic wave interactions.

$103,000 - Award from the National Institute of Child Health and Human Development to Donald O. Parsons, Department of Economics, to study teenage decision-making on schooling and fertility.

$95,000 - Award from the Ohio Board of Regents to Janet Tarino, Chemistry, Mansfield Campus, to train high school teachers in laboratory-based science.

$25,000 - Award from the National Science Foundation to Paul A. Colinvaux, Department of Zoology, to reconstruct the environmental history of the Isthmus of Panama.

That completes my report on the Research Foundation. Thank you.

Mr. Immke:

Mr. Teaford, I guess we're back to you on the Hospitals Board report.

Mr. Teaford:

The Hospital Board also met last week on September 29 and we were pleased to welcome Mrs. Judy Barker from the Borden Corporation, and Mr. William Bennett from Bank One as new members of that Board. During the course of our meeting we covered a wide range of issues including quality assurance, risk management, and medical staff credentialing. Having reviewed protocols for human subject research at a previous meeting, we asked for and received a report on standards for medical research using animal subjects. We received a report from Dr. Mekhjian, the Hospitals' medical director, on actions being taken to ensure that ambulatory surgery is carried out as efficiently as possible. Ambulatory surgery means outpatient surgery. That's one of the things I've learned. We know the quality of medical and nursing care remains very high, and actions being taken are intended to avoid any delays or inconvenience to our ambulatory surgery patients.

Although trends are difficult to identify early in the fiscal year, the financial report through the month of August provided positive indications in the numbers of admissions, patient days, Clinic and Emergency Room visits. The average daily census of 658 was the highest in more than a year. The Medicare case mix index, which is tied to reimbursement rates, was the highest ever experienced. That means we're getting more out of Medicare than we have in the past. In this current system of DRG's that's a very significant fact.

We learned that progress is being made in our efforts to develop a centralized billing system. This is a very complex process, but we are confident we can produce a single collated bill to patients without disrupting revenues to the clinical departments. As an aside, I am meeting next week with Dr.
Mr. Teaford: (contd)

Senhauser who is head of that committee and I am keeping my trust with our former Chairman that I will help get that moved ahead and I think it is moving.

Vice President Jackson and Dr. David Schuller reported recent developments with regard to construction and operation of the Cancer Hospital and Research Institute. Mr. Buchanan gave a report on the status of the Medical Center's development program. Dr. Kevin Murray gave a most interesting presentation on the use of the Jarvik artificial heart to maintain patients awaiting a human heart transplant. I might say in that regard that one of the most exciting things about being on that Board is that there is almost always a presentation of things that are going on at the Hospital. They are always about things that are on the leading edge of developments in health care and they are very exciting things to hear. Mr. Chairman, that completes my report.

Mr. Immke:

Thank you, Mr. Teaford. That concludes our committee reports.

---0---

DISTINGUISHED SERVICE AWARD Resolution No. 89-40

Synopsis: Recommendation for an individual to receive a Distinguished Service Award is proposed.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended an individual for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipient:

Ilsedore M. Edse

and

WHEREAS this award is given in recognition of distinguished service to The Ohio State University and the award is in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Award be approved for awarding as designated above.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the September 2, 1988 meeting of the Board, including the following Appointments, Appointment of Chairperson of Department, Leaves of Absence Without Salary, Leave of Absence Without Salary—Continuation, Professional Improvement Leave, Professional Improvement Leaves—Change of Dates, and Emeritus Titles as detailed in the University Budget be approved.

Appointments

Name: CHARLES F. HERMANN  
Title: Acting Vice Provost  
Office: International Affairs  
Effective: August 1, 1988  
Salary: $94,080.00  
Present Position: Director, Mershon Center and Professor, Department of Political Science

Name: JOSEPH J. KRUZEL  
Title: Acting Director, Mershon Genter for Education in National Security  
Effective: August 1, 1988  
Salary: $47,380.00  
Present Position: Associate Professor, Department of Political Science

Appointments

Name: RENE M. STULZ  
Title: Professor (Meshulam Riklis Chair in Business and Its Environment)  
College: Business  
Effective: October 1, 1988  
Salary: $91,920.00  
Present Position: Professor, Academic Faculty of Finance

Appointment of Chairperson of Department

October 1, 1988 through September 30, 1992

Communication Joseph M. Foley

Leaves of Absence Without Salary

CHARLES L. BABCOCK, Professor, Department of Classics, effective January 1, 1989 through March 31, 1989, to accept an appointment as Acting Andrew W. Mellon Professor-in-Charge of the School of Classical Studies of the American Academy in Rome.

DAVID N. MILLER, Associate Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Winter Quarter 1989, to be a Visiting Professor at Shanghai Teacher's University in the People's Republic of China.
October 6 and 7, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary (contd)

JUNKO SHIGEMITSU, Associate Professor, Department of Physics, effective Autumn Quarter 1988, to do work at the Fermi National Accelerator Laboratory in Batavia, IL.

BRADLEY F. ARMENDT, Assistant Professor, Department of Philosophy, effective Autumn Quarter 1988, to teach at the University of Rochester, Rochester, NY.

CAROL A. BLACKSHIRE-BELAY, Assistant Professor, Department of German, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to do post-doctoral research work at the University of Pennsylvania.

XIAOMEI CHEN, Assistant Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1988, for personal reasons.

JOYCE F. KIRK, Assistant Professor, Department of Black Studies, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to accept a DuBois-Mandela-Rodney Postdoctoral Fellowship at the University of Michigan.

IYOSHIKO MATSUMOTO, Assistant Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1988, for personal reasons.

JAMES M. PEARCE, JR., Assistant Professor, Department of English, effective Winter Quarter and Spring Quarter 1989, for personal reasons.

P. SADAYAPPAN, Assistant Professor, Department of Computer and Information Science, effective Autumn Quarter 1988, and Winter Quarter 1989, to complete research at AT&T Bell.

ALLAN J. SILVERMAN, Assistant Professor, Department of Philosophy, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to accept a Junior Fellowship at the Center for Hellenic Studies in Washington, DC.

SABRA J. WEBBER, Assistant Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to accept a Rockefeller Residency Fellowship at Washington University, St. Louis, MO.

Leave of Absence Without Salary--Continuation

CLaire C. ROBERTSON, Associate Professor, Department of History and Center for Women's Studies, effective Autumn Quarter 1988, to continue research in Kenya, East Africa, on a Fulbright Grant.

Professional Improvement Leave

JOHN D. BONAGURA, Associate Professor, Department of Veterinary Clinical Sciences, effective January 1, 1989 to October 1, 1989.
October 6 and 7, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves--Change of Dates

LOREN V. GEISTFELD, Associate Dean, College of Home Economics, change leave from September 1, 1988, through June 15, 1989, to September 1, 1988, through May 31, 1989.

PATRICK C. McKENRY, Professor, Department of Family Relations and Human Development, change leave from September 1, 1988, through June 8, 1989, to September 1, 1988, through May 31, 1989.

Emeritus Titles

FRANCILLE M. FIREBAUGH, (amendment to emeritus title), Office of International Affairs and Department of Family Resource Management, with the title Vice Provost and Professor Emeritus, effective August 1, 1988.

C. GREY AUSTIN, Office of the President, with the title Ombudsman Emeritus, effective September 1, 1988.

DARYLE H. BUSCH, Department of Chemistry, with the title Presidential Professor Emeritus, effective August 1, 1988.

ROBERT CANZONERI, Department of English, with the title Professor Emeritus, effective January 1, 1989.

DAVID A. GRIFFIN, Department of Romance Languages and Literatures, with the title Professor Emeritus, effective July 1, 1988.

DARYL S. SHOEMAKER, Cooperative Extension Service, with the title Associate Professor Emeritus, effective September 1, 1988.

DALE T. BONNETT, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective October 1, 1988.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

RESOLUTIONS IN MEMORIAM

Resolution No. 89-42

Synopsis: Resolutions honoring the service of three of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

James M. Andrew, M.D.

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 12, 1988, of James M. Andrew, Associate Professor in the Department of Ophthalmology.
RESOLUTIONS IN MEMORIAM (contd)

James M. Andrew, M.D. (contd)

Dr. Andrew was born in Columbus, Ohio, on July 5, 1922. He graduated from Upper Arlington High School in 1940 and attended Dartmouth College, Hanover, New Hampshire, graduating with a B.A. degree in 1945. He then obtained his M.D. degree in 1947 from Long Island College of Medicine. His postgraduate studies were done at the Harper Hospital in Detroit, Michigan, and the Kresge Eye Institute at Wayne State University from 1948 to 1951.

In 1951 Dr. Andrew returned to Columbus, Ohio, where he entered into private practice and joined the faculty of the Department of Ophthalmology at The Ohio State University. Except for a two year stint in the Air Force where he was Chief of the Department of Ophthalmology at Wright-Patterson Air Force Base, Dr. Andrew's professional life was spent in Columbus, Ohio.

He was a member of the American Medical Association, the Ohio State Medical Association, Columbus Academy of Medicine, American College of Surgeons, American Academy of Ophthalmology, and the American Intraocular Implant Society.

Dr. Andrew has a particular interest in glaucoma and implant surgery. He was very active in teaching residents and medical students in the Department. His publications include chapters in Pediatric Ophthalmology by L. Byerly Holt as well as a number of articles in the ophthalmic literature.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Dr. Andrew. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Sue Louise Smiley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 14, 1988, of Sue Louise Smiley, Assistant Professor of the Ohio Cooperative Extension Service.

Sue Louise Smiley was born on December 26, 1949, in Magnolia (Carroll County), Ohio. She received her B.S. in Home Economics from Bowling Green State University in 1972 and her M.S. degree in Guidance Counseling, Pupil Personnel from Youngstown State University in 1978.

Mrs. Smiley began her Extension experience when she joined the faculty at The Ohio State University in 1972 as a County Extension Agent, Home Economics in Trumbull County. Mrs. Smiley continued in this position until her untimely death.

Mrs. Smiley's contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her co-workers and many thousands of Ohio citizens throughout the length and breadth of Trumbull County.
RESOLUTIONS IN MEMORIAM (contd)

Sue Louise Smiley (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Sue Louise Smiley its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and her many friends and associates have sustained.

Cloea C. Thomas

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 12, 1988, of Cloea C. Thomas, Associate Professor Emeritus in the School of Music.

Cloea Thomas was born in Marietta, Ohio, on April 23, 1897. She received her diploma from Montana State Normal College, Dillon, Montana, in 1916, graduated from Teachers College, Columbia University with a B.S. in Ed. in 1926, and in 1938 with a M.A. degree. Miss Thomas was an elementary teacher in Montana, 1916-18, demonstration critic teacher in Cortland, NY, 1926-29, demonstration teacher in the Experimental School of Teachers College Music Department, summers of 1928-29.

Miss Thomas joined the music faculty at Ohio State University in 1929 to teach music courses for elementary education majors and music education majors, serve as demonstration teacher and music student teacher supervisor. For ten years, Miss Thomas directed the course, Broadcasting a Weekly Music Lesson to Children of Primary Grades. The lessons were broadcast over WOSU to many schools in Ohio. Miss Thomas was well-known for her extensive knowledge of music literature for children. Her keen interest in folk dance was enhanced by her participation in The Folk Dance Society in the New School for Social Research. During her travel abroad and in North America she explored the folk music and dance of various nationalities.

Scenes and Songs of the Ohio-Erie Canal, published by the Ohio State Historical Society in 1952 and 1971, includes several of the vast collection of folk and popular songs Miss Thomas transcribed and edited. In her programs based on canal songs she related highly amusing experiences with the singer, Captain Nye.

Miss Thomas was a major contributor to the development of the State Course of Study for Music in Ohio and Oregon. Her professional memberships included Music Educators National Conference, Ohio Music Education Association, Pi Kappa Lambda. She frequently was a speaker or clinician for the national and state conventions. She served on MENC committees dealing with Creative Work of Children in Music and Integration of Music with Other Fields.

Although Miss Thomas retired in 1965, the Ohio Music Education Association honored her with the Distinguished Service Award in 1972. This award reflected the continuing admiration, respect and appreciation of colleagues and former students for this dedicated teacher.
October 6 and 7, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Cloea Thomas (contd)

The School of Music pays tribute to the memory of Cloea Thomas, her effective teaching, her attention to detail, her integrity, her gentle, disciplined manner, and her positive influence on the field of music education.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Ms. Casto, seconded by Mr. Wexner, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-43

Synopsis: The reports on contracts, grants, and gifts and the summary for August 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of August 1988 be approved.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR AUGUST 1988

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research</td>
<td>135</td>
<td>$14,186,148.46</td>
</tr>
<tr>
<td>Foundation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>70</td>
<td>$710,046.00</td>
</tr>
<tr>
<td>Total</td>
<td>205</td>
<td>$14,896,194.46</td>
</tr>
</tbody>
</table>

192
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR AUGUST 1988 (contd)

The Ohio State University Development Fund

Establishment of Named Funds

John D. and Ernestine Spencer Scholarship Fund
(Scholarships for students from Licking County) $ 38,000.00

MerryMakers Club of Columbus, Inc., Endowment Fund
(Support for the National Achievement Program at OSU) $ 20,000.00

The Harry Binkovitz and Lachie Kline Award Fund
(Newark Campus - award for best written essay on the Holocaust) $ 19,000.00

The Jack N. Taylor, M.D., Urology Lectureship Fund
(Lecture(s)) $ 15,185.00

The Richard E. Bridwell Fund
(Financial assistance to second or third year law students from Muskingum County) $ 5,000.00

Change in Description of Named Fund

The Michael Swink Memorial Scholarships in Theatre
Federal Research Contracts/Grants


$838,164.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Spinal Cord Injury Research Center, Department of Surgery (W. E. Hunt) and Department of Physiology (B. T. Stokes), 1 September 1988 through 31 August 1989. (Project 763358 – Continuation)

$591,765.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Mental Retardation Training, Nisonger Center (V. L. Reynolds), 1 July 1988 through 30 June 1989. (Project 761169 – Continuation)

$301,823.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Transmural Transport in Blood Vessels, Department of Pathology and Department of Internal Medicine (D. L. Fry), 1 September 1988 through 31 August 1989. (Project 763184 Continuation)

$263,786.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biogenesis of Mitochondria in Neurospora, Department of Molecular Genetics and Department of Biochemistry (A. M. Lambowitz), 1 September 1988 through 31 August 1989. (Project 765538 – Continuation)

$220,121.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Personality, Psychological Stress, and Immunocompetence, Department of Microbiology and Immunology (M. R. Glaser and W. Lafuse), Department of Psychiatry (J. Kiecolt-Glaser) and Oral Biology (J. Sheridan), 1 September 1988 through 31 August 1989. (Project 764961 – Continuation)

$207,345.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Human Leucocyte Fragment Crystallizable Receptor Structure and Function, Department of Internal Medicine (C. L. Anderson), 1 September 1988 through 30 June 1989. (Project 765701 – Continuation)

$195,000.00 - National Science Foundation, Washington, D.C., Transfer of Reducing Equivalents from Host Cytoplasm to Bacteroids in Legume Nodules, Department of Agronomy - OARDC (J. G. Streeter), 1 September 1988 through 29 February 1992. (Project 766959 – New)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$174,636.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mouse Thymidylate Synthase Gene Expression, Department of Biochemistry and Department of Molecular Genetics (L. F. Johnson), 1 September 1988 through 31 August 1989. (Project 762903 - Continuation)

$171,518.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center -- East Asia, Office of International Affairs (C. M. Chen), 15 August 1988 through 14 August 1989. (Project 766979 - Continuation)

$152,689.00 - Department of the Interior, Geological Survey, Reston, Virginia, Water and Chemical Movement Through the Biologically Active Surface Layer of No-Till Soil, Department of Agronomy - OARDC (W. A. Dick and E. L. McCoy), 1 September 1988 through 31 August 1991. (Project 766993 - New)

$148,852.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Tumor-Localizing Boron Compounds for Chemoradiotherapy, College of Pharmacy (A. H. Soloway) and Department of Pathology (R. F. Barth), 1 September 1988 through 31 August 1989. (Project 765629 - Continuation)

$139,569.00 - National Science Foundation, Washington, D.C., Holocene Paleoclimatic Reconstruction from Greenland Ice Cores, Byrd Polar Research Center (E. Mosley-Thompson and L. G. Thompson), 1 August 1988 through 31 July 1989. (Project 765661 - Continuation)

$137,406.00 - Environmental Protection Agency, Washington, D.C., Role of Xenobiotics in Modifying Gene Expression, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 1 August 1988 through 31 July 1989. (Project 765679 - Continuation)


$131,829.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gastrointestinal Kallikrein and Renin Systems, Department of Physiology (P. E. Ward), 1 July 1988 through 30 June 1989. (Project 766971 - New)

$128,340.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Development of Cerebellar Circuits, Department of Anatomy (J. S. King), 1 September 1988 through 31 August 1989. (Project 760045 - Continuation)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$126,828.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stochastic Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Department of Chemistry and Department of Biochemistry (A. G. Marshall), 1 September 1988 through 31 August 1989. (Project 763504 - Continuation)

$118,348.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Glycoconjugates and Glioma Resistance to Cytolysis, Department of Pathology (A. J. Yates), 1 August 1988 through 31 July 1989. (Project 762989 - Continuation)

$117,118.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cardiac Myocytes and the Cellular Response to Ischemia, Department of Physiological Chemistry (G. P. Brierley), 30 September 1988 through 29 September 1989. (Project 765733 - Continuation)

$115,590.00 - Department of Agriculture, Farmers Home Administration, Washington, D.C., Educational Program in Wastewater Management for Rural Communities, Cooperative Extension State Operations (K. M. Mancl), 1 October 1988 through 30 September 1989. (Project 766981 - New)

$115,000.00 - National Foundation of Arts and Humanities, National Endowment for the Humanities, Washington, D.C., American Fiction, 1901-1925: A Contribution Toward a Bibliography, University Libraries (G. D. Smith), 1 September 1988 through 31 August 1990. (Project 766977 - New)

$107,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Novel Ultrasonic Techniques for Interface Studies, Department of Welding Engineering (L. Adler), 1 July 1988 through 31 March 1989. (Project 766985 - New)

$104,150.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Establishment of an Undergraduate Middle East Center, University Center for International Studies (A. Payind), Office of International Affairs (F. Firebaugh) and Graduate School Administration (R. Koenigsknecht), 15 August 1988 through 14 August 1989. (Project 766980 - New)

$103,309.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Teenage Decision-Making, Schooling, and Fertility, Department of Economics (D. O. Parsons), 1 August 1988 through 31 July 1989. (Project 767000 - New)

$100,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Control of Insect Populations by Regulation of Dormancy, Department of Entomology (D. L. Denlinger), 1 September 1988 through 31 August 1990. (Project 766944 - New)
Federal Research Contracts/Grants (contd)

$99,059.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Hexose Epimerases and Oxidoreductases, Department of Chemistry (R. M. Mayer), 1 September 1988 through 31 August 1989. (Project 765015 - Continuation)

$95,412.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gustatory Afferent Organization in the Solitary Nucleus, Oral Biology (S. P. Travers), 1 September 1988 through 31 August 1989. (Project 765694 - Continuation)

$90,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Vector Specificity and Transmission Mechanism of Maize Chlorotic Dwarf Virus, Department of Plant Pathology - OARDC (E. D. A. Ammar) and Department of Entomology - OARDC (L. R. Nault), 1 July 1988 through 30 June 1990. (Project 766949 - New)

$86,400.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Geriatric Leadership Academic Award, Department of Internal Medicine (R. Whisler), 1 September 1988 through 31 August 1989. (Project 766318 - Continuation)

$84,808.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Transfusion Medicine Academic Award, Department of Pathology (M. S. Kennedy), 1 August 1988 through 31 July 1989. (Project 764898 - Continuation)

$75,621.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Chemistry of Biologically Relevant Quinone Imines, Department of Chemistry (J. S. Swenton), 1 August 1988 through 31 July 1989. (Project 765570 - Continuation)


$74,903.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Correlation of 3-D Coronary Axial Geometry and Pathology, Engineering Experiment Station (M. H. Friedman), 1 July 1988 through 30 June 1989. (Project 766943 - New)

$72,700.00 - National Science Foundation, Washington, D.C., Investigation of Comagnetic Complexes Using Isotope Systematics, Department of Geology and Mineralogy (K. A. Poland), 1 August 1988 through 31 January 1990. (Project 766348 - Continuation)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$69,301.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Carcinogenesis, Molecular and Cellular Biology, Comprehensive Cancer Center and Department of Physiological Chemistry (G. E. Milo), 1 September 1988 through 31 August 1989. (Project 764351 - Continuation)

$68,897.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Physiological Analysis of Optic Nerve Disease, College of Optometry (P. E. King-Smith), 1 August 1988 through 31 July 1989. (Project 763996 - Continuation)

$68,841.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Adaptive Mechanisms of Accommodation and Convergence, College of Optometry (R. Jones), 1 September 1988 through 31 August 1989. (Project 765633 - Continuation)

$66,658.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Improvement of the Earth's Gravity Field from Terrestrial and Satellite Data, Department of Geodetic Science and Surveying (R. H. Rapp), 1 September 1988 through 31 August 1989. (Project 760056 - Continuation)

$62,720.00 - National Science Foundation, Washington, D.C., Orthogonal Polynomials and Their Applications, Department of Mathematics (P. Nevai), 15 July 1988 through 31 December 1989. (Project 766825 - New)


$61,171.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Nicotine, Neuroregulators, and Dysphoric States Among Smokers, Department of Life Span Process (M. E. Wewers), 1 August 1988 through 31 July 1989. (Project 766995 - New)

$60,356.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, An In Vitro Assessment of the Morphological and Physiological Correlates of Acetylcholine (ACh) and Vasoactive Intestinal Polypeptide (VIP) in the Mammalian Cerebral Cortex, Oral Biology (W. E. Thomas), 1 August 1988 through 30 July 1989. (Project 766962 - New)

$60,100.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integration Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1988 through 31 December 1988. (Project 766995 - New)
Federal Research Contracts/Grants (contd)

$55,745.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Collaborative Ocular Melanoma Study -- Clinical Center, Department of Ophthalmology (F. H. Davidorf), 1 August 1988 through 31 July 1989. (Project 765050 - Continuation)

$55,000.00 - National Science Foundation, Washington, D.C., An Integrated Task Approach to Expert Systems for Fault Diagnosis, Department of Chemical Engineering (J. F. Davis) and Department of Computer and Information Science (B. Chandrasekaran), 1 August 1988 through 31 January 1990. (Project 766282 - Continuation)

$53,495.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1988 through 31 August 1989. (Project 766355 - Continuation)


$50,620.00 - National Science Foundation, Washington, D.C., An Indo-U.S. Workshop on Bayesian Analysis in Statistics and Econometrics, Department of Statistics (P. K. Goel), 1 August 1988 through 31 July 1989. (Project 766999 - New)


$50,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Derivatives of Boranes, Possible Metal Boride and Boron Nitride Precursors, Department of Chemistry (S. G. Shore), 1 August 1988 through 31 January 1989. (Project 766948 - New)

$50,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (R. J. Perry), 15 August 1988 through 31 January 1990. (Project 766901 - New)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$45,394.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Ethology of Blood/Sugar Antagonism in Mosquitoes, Department of Entomology (W. A. Foster), 1 September 1988 through 31 August 1989. (Project 766238 - Continuation)

$45,114.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Dietary Induced Aluminum Encephalopathy -- Animal Models, Department of Veterinary Pathobiology (J. F. Long), 1 September 1988 through 31 August 1989. (Project 765717 - Continuation)

$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integration Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1988 through 31 December 1989. (Project 766995 - Continuation)


$34,288.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Immuno-prevention of Human T-Cell Leukemia Virus-I Infection, Department of Veterinary Pathobiology (R. G. Olsen and L. E. Mathes), 1 August 1987 through 30 November 1988. (Project 765057 - Continuation)

$33,093.00 - National Science Foundation, Washington, D.C., Studies of Internal Layering and Basal Conditions in Ice Sheets Using Low Frequency Ice Radar, Byrd Polar Research Center and Department of Geology and Mineralogy (I. M. Whillans), 1 June 1988 through 30 November 1989. (Project 765261 - Continuation)

$29,671.00 - National Science Foundation, Washington, D.C., Knowledge-Based Simultaneous Engineering for Mechanical Design Using Design Compatibility Analysis, Department of Mechanical Engineering (K. Ishii), 15 August 1988 through 31 January 1990. (Project 766975 - New)

$25,000.00 - National Science Foundation, Washington, D.C., The Environmental History of the Panama Land Bridge, Department of Zoology (P. A. Colinvaux and M. Bush), 1 September 1988 through 31 August 1989. (Project 766984 - New)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (G. P. Lafyatis), 1 September 1988 through 28 February 1990. (Project 766988 - New)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Computer and Information Science (K. J. Supowit), 1 September 1988 through 31 August 1989. (Project 766850 - Continuation)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$24,000.00 - National Science Foundation, Washington, D.C., Coherence and Chaos in Integrable Partial Differential Equations, Department of Mathematics (E. A. Overman), 15 July 1988 through 30 June 1990. (Project 766998 - New)

$22,789.00 - National Science Foundation, Washington, D.C., Image Analysis Methods for Control of Arc Welding, Department of Welding Engineering (R. W. Richardson), 1 August 1988 through 31 July 1989. (Project 766974 - New)


$20,000.00 - National Science Foundation, Washington, D.C., Probes of the Broad Line Region, Department of Astronomy (J. A. Baldwin), 1 September 1988 through 31 August 1989. (Project 767001 - New)

$10,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, Department of Electrical Engineering, ElectroScience Laboratory (R. Rudduck), 1 September 1988 through 31 October 1988. (Project 763724 - Continuation)

$7,800.00 - National Science Foundation, Washington, D.C., Highly-Excited States of Atoms and Molecules, Department of Physics (R. D. Knight), 15 July 1988 through 30 June 1989. (Project 766887 - Continuation)

$7,150.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanical Control and Energetics of Muscle Contraction, Department of Physiology (E. Bozler), 1 September 1988 through 31 August 1989. (Project 760924 - Continuation)


$5,000.00 - Department of Agriculture, Science and Education, Washington, D.C., International Conference on Sustainable Agricultural Systems, Department of Entomology - OARDG and Department of Entomology (C. A. Edwards), 1 June 1988 through 31 May 1989. (Project 766945 - New)
Federal Research Contracts/Grants (contd)

$5,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, College of Optometry (F. W. Hebbard), 1 September 1988 through 31 August 1989. (Project 766983 - New)

$4,000.00 - National Science Foundation, Washington, D.C., Paleobotany in Antarctica: Paleozoic and Mesozoic, Byrd Polar Research Center and Department of Botany (T. N. Taylor) and Byrd Polar Research Center (E. L. Taylor), 1 August 1988 through 31 October 1989. (Project 765819 - Continuation)

$2,993.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Comparison of Materials for Hybrid III Ribs, Department of Mechanical Engineering (J. A. Collins), 1 June 1988 through 31 December 1988. (Project 766989 - New)

Total Federal Awards $ 9,369,798.00

State of Ohio Research Contracts/Grants

$897,518.80 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - C - Trade and Industrial Education Services, Education Administration (J. J. Buffer), 1 July 1988 through 30 June 1989. (Project 766875 - Continuation)

$599,796.19 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - D - Vocational Educational Services, Education Administration (J. J. Buffer), 1 July 1988 through 30 June 1989. (Project 766877 - Continuation)

$521,699.80 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - B - Vocational Research, Survey, Evaluation, and Exemplary Programs, Education Administration (J. J. Buffer), 1 July 1988 through 30 June 1989. (Project 766874 - Continuation)

$403,299.52 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - E - Instructional Materials Laboratory, Education Administration (J. J. Buffer), 1 July 1988 through 30 June 1989. (Project 766876 - Continuation)

$284,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Southwest Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Studies: Humanities, Science, Technological and Vocational (A. J. Miller) and Department of Home Economics Education (S. V. Redick), 1 July 1988 through 30 June 1989. (Project 766226 - Continuation)
State of Ohio Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Agency</th>
<th>Department/Program</th>
<th>Principal Investigators</th>
<th>Start Date Through</th>
<th>Project Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>$239,750.00</td>
<td>State of Ohio</td>
<td>Department of Education, Columbus, Ohio, Central Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Studies: Humanities, Science, Technological and Vocational (A. J. Miller) and Department of Home Economics Education (S. V. Redick)</td>
<td>1 July 1988 through 30 June 1989.</td>
<td>(Project 766218 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$125,000.00</td>
<td>State of Ohio</td>
<td>Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey)</td>
<td>1 July 1988 through 30 June 1989.</td>
<td>(Project 766925 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$110,000.00</td>
<td>State of Ohio, Board of Regents</td>
<td>Columbus, Ohio, Workshops for Science Teachers on Humane Care and Use of Vertebrates, Laboratory Animal Center (J. F. Cornhill)</td>
<td>15 July 1988 through 31 December 1989.</td>
<td>(Project 766935 - New)</td>
<td></td>
</tr>
<tr>
<td>$102,655.15</td>
<td>State of Ohio</td>
<td>Department of Education, Columbus, Ohio, Vocational Education Contracts - A - Vocational Teacher Education, Department of Educational Studies: Humanities, Science, Technological and Vocational (G. Jarvis)</td>
<td>1 July 1988 through 30 June 1989.</td>
<td>(Project 766871 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$95,000.00</td>
<td>State of Ohio, Board of Regents</td>
<td>Columbus, Ohio, Science is Fun: A Hands-On Middle School Science Program, Mansfield Campus, Department of Chemistry (J. Z. Tarino)</td>
<td>15 July 1988 through 31 December 1989.</td>
<td>(Project 766947 - New)</td>
<td></td>
</tr>
<tr>
<td>$55,000.00</td>
<td>State of Ohio</td>
<td>Department of Mental Health, Columbus, Ohio, Trainees in Community Mental Health Treatment for the Severely Mentally Disabled, College of Social Work (M. Coleman)</td>
<td>1 July 1988 through 30 June 1989.</td>
<td>(Project 766958 - New)</td>
<td></td>
</tr>
<tr>
<td>$50,132.00</td>
<td>State of Ohio</td>
<td>Department of Natural Resources, Columbus, Ohio, Shredded Newspaper for Animal Bedding -- Phase I and Phase II, Cooperative Extension State Operations (J. D. Rohrer)</td>
<td>28 July 1988 through 30 September 1989.</td>
<td>(Project 766970 - New)</td>
<td></td>
</tr>
<tr>
<td>$38,758.00</td>
<td>State of Ohio</td>
<td>Department of Education, Columbus, Ohio, Ohio Entrepreneurs Research Project -- Year II, The National Center for Research in Vocational Education (R. D. Ryan)</td>
<td>1 July 1988 through 30 June 1989.</td>
<td>(Project 766953 - Continuation)</td>
<td></td>
</tr>
</tbody>
</table>
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$18,389.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Preliminary Study of Community Treatment Teams: Franklin County RWJ Project, College of Social Work (R. J. First), 1 August 1988 through 30 June 1989. (Project 766968 - New)

$11,424.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey), 1 July 1987 through 30 June 1989. (Project 766212 - Continuation)

Equipment - State of Ohio, Department of Natural Resources, Columbus, Ohio, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 11 June 1988 through 10 June 1989. (Project 766219 - Continuation) (Approximate Dollar Value - $25,000)

Total - State of Ohio Awards $3,574,174.46

Industrial Research Contracts/Grants

$207,500.00 - General Motors Corporation, Columbus, Ohio, Synchronous Work Group Research and Development Project, Department of Educational Studies: Humanities, Science, Technological and Vocational (R. L. Jacobs), 1 July 1988 through 29 September 1989. (Project 766978 - New)

$77,815.00 - NeoRx Corporation, Seattle, Washington, *Pseudomonas aeruginosa* Exotoxin A: Genetic Reconstruction, Analysis, and Production, Department of Microbiology (D. R. Galloway), 1 August 1988 through 31 July 1989. (Project 767003 - New)

$56,957.00 - E. I. DuPont de Nemours and Company, Wilmington, Delaware, Development of Lymphokine Activated Killer Cell Adoptive Transfer Therapy in Man, Department of Internal Medicine (J. J. Rinehart), 1 July 1986 through 14 July 1989. (Project 764609 - Continuation)

$51,842.00 - Neoprobe Corporation, Columbus, Ohio, Phase I-II Clinical Study: The Intraoperative Detection of Colorectal Cancer by Radiolabeled B72.3 Monoclonal Antibody, Department of Surgery (E. W. Martin), 1 August 1988 through 31 July 1989. (Project 766930 - New)

$51,000.00 - Boeing Advanced Systems Company, Seattle, Washington, Construction of Three BAS Designed Airfoil Models and Services for Tunnel Test of These Airfoil Models, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 May 1988 through 30 September 1988. (Project 766942 - New)

Industrial Research Contracts/Grants (contd)


$45,000.00 - Sears Manufacturing Company, Davenport, Iowa, Research and Development of Heavy-Duty Truck Seating System and Interior Paneling Concept, Department of Industrial Design (R. F. Butter and H. Goeller), 1 July 1988 through 30 June 1989. (Project 766920 - New)

$36,751.00 - SYMEDIX, Inc., Wayne, Pennsylvania, Fluorocarbon Emulsions, College of Pharmacy (S. G. Frank), 1 August 1988 through 31 December 1988. (Project 766429 - Continuation)


$21,450.00 - Fidia, Abano Terme (PD), Italy, Consequences of Administering Ganglioside (GM1) or Synthetic Ganglioside (AGF2) After 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) Induced Neurotoxicity, Department of Pharmacology (N. H. Neff), 1 April 1986 through 31 March 1989. (Project 765423 - Continuation)

$17,000.00 - Mission Research Corporation, Santa Barbara, California, Advanced Radar Cross Section Measurement Range, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside and J. D. Young), 1 July 1988 through 30 August 1988. (Project 766973 - New)

$15,545.00 - Septech, Wakefield, Rhode Island, A System for Realtime Automated Control of Preparative and Process HPLC Equipment, College of Pharmacy and Comprehensive Cancer Center (J. M. Jagadeesh), 20 June 1988 through 20 October 1988. (Project 766951 - New)


$11,520.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Phase III Clinical Trial of Voltaren in Patients with Osteoarthritis, Department of Family Medicine (R. M. Guthrie, N. Gerber and R. T. Sickles), 1 April 1988 through 31 March 1989. (Project 765696 - New)

October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)


Pharmaceuticals - Pfizer, Inc., Groton, Connecticut, Non-Comparative Study of Fluconazole in Patients with Serious Mycoses and Who Cannot be Treated with Conventional Antifungal Therapy, Department of Internal Medicine (R. J. Fass), 4 May 1988 through 3 May 1989. (Project 766955 - New) (Approximate Dollar Value - $1,600)

Total - Industrial Awards $ 752,139.00

Other Non-Federal Research Contracts/Grants

$63,441.00 - The Pennsylvania State University, University Park, Pennsylvania, Measurement of Forest Condition and Response Along an Atmospheric Deposition Gradient, Laboratory for Environmental Science - OARDC (J. R. McClenahen), 1 January 1988 through 30 September 1988. (Project 766713 - Continuation)

$50,000.00 - Fernbank, Inc., Atlanta, Georgia, Computer Graphics Design and Communications Services, Relative to the Proposed Fernbank Museum of Natural History, Atlanta, Department of Art Education (C. A. Csuri), 1 May 1988 through 30 April 1989. (Project 765922 - Continuation)

$40,000.00 - Coherin Research Foundation, Dresden, Maine, Studies on Coherin, Department of Internal Medicine (T. S. Gaginella), 15 June 1988 through 14 June 1989. (Project 766946 - New)

$36,000.00 - Eighteen Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766839 - Continuation)


$27,750.00 - U.S.-Spain Joint Committee for Cultural and Educational Cooperation, Madrid, Spain, The Development of Partisanship and Spanish Democracy, Department of Political Science (R. P. Gunther and B. M. Richardson), 1 September 1988 through 31 August 1989. (Project 765417 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$27,124.00 - American Diabetes Association, Alexandria, Virginia, Effect of Acute Exercise on Skeletal Muscle Insulin, School of Health, Physical Education and Recreation (W. M. Sherman), 1 July 1988 through 30 June 1989. (Project 766133 - Continuation)

$25,000.00 - Alfred P. Sloan Foundation, New York, New York, Alfred P. Sloan Research Fellowship, Department of Physics (D. L. Cox), 16 September 1988 through 15 September 1990. (Project 766982 - New)


$18,427.00 - The University of Kansas, Lawrence, Kansas, Demodulation Processes in Auditory Perception, Division of Speech and Hearing (L. Feth), 1 August 1988 through 30 November 1988. (Project 766921 - New)

$18,060.00 - Morris Animal Foundation, Englewood, Colorado, Use of Rocaltrol (Calcitriol) and Aluminum Free Phosphate Binders in Prevention and Control of Renal Secondary Hyperparathyroidism, Department of Veterinary Pathobiology (L. A. Nagode), 1 September 1987 through 31 August 1989. (Project 766338 Continuation)

$16,000.00 - Battelle Memorial Institute, Columbus, Ohio, Interdisciplinary Research on Wear of Materials, Department of Metallurgical Engineering (D. A. Rigney), 10 October 1987 through 31 August 1988. (Project 764981 - Continuation)

$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Genetic Characterization of Novel Elements in Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 July 1988 through 30 June 1989. (Project 766960 - New)

$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, The Biochemistry of Chorion Gene Amplification, Department of Molecular Genetics (M. T. Muller), 1 July 1988 through 30 June 1989. (Project 766950 - New)

$14,297.00 - The Pennsylvania State University, Hershey, Pennsylvania, Mitotic Modifiers of Hormone Dependent Cancers, Department of Surgery (J. R. Drago), 1 July 1988 through 30 June 1989. (Project 766967 - New)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$11,655.00 - United Auto Workers-General Motors Human Resource Center, Madison Heights, Michigan, AIDS in the Workplace, Department of Family Medicine (L. L. Gabel), 1 April 1988 through 31 March 1989. (Project 766769 - Continuation)

$6,522.00 - The University of Utah, Salt Lake City, Utah, Immunosuppressive Therapy for Biopsy-Proven Myocarditis, Department of Internal Medicine (R. C. Starling), 1 July 1988 through 30 November 1988. (Project 765563 - Continuation)

$6,000.00 - Corporation for Public Broadcasting, Washington, D.C., Planning for Telephone-Assisted Language Instruction, Department of Slavic and East European Languages and Literatures (L. I. Twarog), 1 August 1988 through 30 September 1988. (Project 766987 - New)

$5,902.00 - North Atlantic Treaty Organization, Brussels, Belgium, Inosine Biosynthesis in tRNA: Role in Regulating Gene Expression, Department of Physiological Chemistry and Comprehensive Cancer Center, (R. W. Trewyn), 1 April 1986 through 31 July 1989. (Project 765315 - Continuation)

$4,450.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologicals Committee Activities of the Community Clinical Oncology Programs, Department of Internal Medicine (J. J. Rinehart), 1 June 1988 through 31 May 1989. (Project 765841 - Continuation)

$2,000.00 - California State Beekeepers Association, Inc., Red Bluff, California, A Genetic Study of Honey Bee Resistance to the Tracheal Mite Acarapis woodi, Department of Entomology (R. E. Page, Jr.), 1 July 1988 through 31 August 1989. (Project 766963 - Continuation)

$715.00 - Battelle Memorial Institute, Columbus, Ohio, Particle Impact Tests on Steel Plates, Department of Civil Engineering (W. E. Wolfe), 6 July 1988 through 6 June 1989. (Project 766954 - New)

Total - Other Non-Federal Awards $ 490,037.00

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

$50,546.00 - from 45 sponsors of 50 development projects in two research areas of the College.

$50,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Investigation of Weldability Test Techniques," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529320)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$44,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Full-Penetration in Precision Mechanized GTA Welding," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529327)

$42,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Silicate Brazing of Ceramics," Department of Ceramic Engineering, July 1, 1988 through June 30, 1989. (529316)

$42,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Thermal/Stress Modeling of Plastic Welding," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529322)

$40,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Analytical Electron Microscopy," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529333)

$40,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Modeling of Fluid Flow and Heat Transfer in Welds," Department of Mechanical Engineering, July 1, 1988 through June 30, 1989. (529332)

$40,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Automatic Recognition of Welding Defects in Radiographic Images with Applications to Real Time Radiographic Control of Arc Welding," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529329)

$40,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Penetration Studies in High Radiance Laser Welding," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529321)

$40,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "NDE of Composites and Composite Joints," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529318)

$38,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Development of Optical Remote Sensing Instrumentation for Ultrasonic NDE Applied in Hostile Industrial Environment as Well as on Assembly Line Production," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529325)

$35,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Fracture Mechanics Analysis of Thermoplastics Welds," Department of Engineering Mechanics, July 1, 1988 through June 30, 1989. (529335)

$32,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Arc Sensors of Pool Oscillations for Penetration," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529328)
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$32,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Evaluation of Solid-State Bond Strength by Ultrasonic Spectroscopy," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529319)

$31,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Investigation of Submerged GTAW," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529331)

$22,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Computer-Aided Tomography of Welds," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529330)

$20,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Seam Welding of Coated Steels," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529334)

$19,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Welding of Metal Matrix Composites," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529323)

$18,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Nondestructive Evaluation in Microelectronics Manufacturing by the Use of the Scanning Acoustic Microscope," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529317)

$17,500.00 - from the Edison Welding Institute, Columbus, Ohio, for "Robot, Vision and Off-Line Programming Integration," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529328)

$17,000.00 - from the Edison Welding Institute, Columbus, Ohio, for "Hydrogen Cracking and Related Effects in Steel," Department of Welding Engineering, July 1, 1988 through June 30, 1989. (529324)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $710,046.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

John D. and Ernestine Spencer Scholarship Fund

The John D. and Ernestine Spencer Scholarship Fund was established October 7, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Ernestine Spencer of Newark, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of
Establishment of Named Funds (contd)

John D. and Ernestine Spencer Scholarship Fund (contd)

The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for students who are recent graduates of the Licking County Schools. Students must be enrolled full time and declare a major in journalism, education, or political science. Candidates must demonstrate academic ability and have documented financial need. Recipients must be attending The Ohio State University at Newark and maintaining a minimum 2.5 accumulative grade point average to be eligible for the annual award. The student may receive the scholarship two times. Applicants are to complete the Newark campus financial aid application form and provide a letter of recommendation from their high school guidance counselor. Award recipients shall be chosen by the Newark Campus Scholarship Committee consisting of two faculty members, one senior administrator and the financial aid coordinator, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

MerryMakers Club of Columbus, Inc., Endowment Fund

The MerryMakers Club of Columbus, Inc., Endowment Fund was established October 7, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from members of the MerryMakers Club of Columbus, Inc., Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship support for the National Achievement program at The Ohio State University. Award recipients shall be chosen by the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Harry Binkovitz and Lachie Kline Award Fund

The Harry Binkovitz and Lachie Kline Award Fund was established October 7, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Gene and Joy Binkovitz of Granville, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an annual award for the best written essay on the Holocaust (the Nazi extermination of six million Jews between 1941-1945). Students entering or returning to The Ohio State University at Newark may compete. The winning essay will be selected by a committee appointed by the dean/director of The Ohio State University at Newark and composed of a Newark campus history department faculty member, an English department faculty member, and one other appropriate professional employee within the University system in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Jack N. Taylor, M.D., Urology Lectureship Fund

The Jack N. Taylor, M.D., Urology Lectureship Fund was established October 7, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the family, colleagues, patients and friends of the late Jack Neel Taylor, M.D. (B.A. '40) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund an annual lecture (or lectures), administered by the Division of Urology in the College of Medicine, to be named The Jack N. Taylor, M.D. Lectureship in Urologic Education and Research. Each year a distinguished speaker of national or international reputation will present a major presentation on a topic related to an area relevant to the mission and disciplines of the Division of Urology. The fund will be used for the speaker's honorarium and for related expenses. The selection of the annual speaker will be the responsibility of the Director of the Division of Urology or his or her designee(s).
Establishment of Named Funds (contd)

The Jack N. Taylor, M.D., Urology Lectureship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors with preference being given to recommendations which meet the educational, research and patient care goals of the Division of Urology.

The Richard E. Bridwell Fund

The Richard E. Bridwell Fund was established October 7, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Richard E. Bridwell (B.S. Bus. Adm. '49, J.D. '51) of Zanesville, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance for second- and third-year students in The Ohio State University College of Law with preference being given to students from Muskingum County. If there are no eligible recipients from Muskingum County, then the income may be used to provide financial assistance to students from the surrounding counties of southeastern Ohio. Award recipients shall be chosen by the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

Change in Description of Named Fund

The Michael Swink Memorial Scholarships in Theatre

The Michael Swink Memorial Scholarships in Theatre were established September 5, 1980, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the family and friends of Michael Swink (B.A. '75), Columbus, Ohio. The description was revised October 7, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.
Change in Description of Named Fund (contd)

The Michael Swink Memorial Scholarships in Theatre (contd)

The income is to be used to provide one or more scholarships for sophomore and upper level undergraduate students who have demonstrated exceptional talent and ability in theatre in the area of stage lighting, sound and/or stage design and for incoming first-year students who have demonstrated exceptional talent and ability in the aforementioned areas of theatre in high school. Not more than half of the annual income may be awarded to incoming students. Selection of the recipient(s) is to be made upon the recommendation of the chairperson of the Department of Theatre and the Dean of the College of the Arts in coordination with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

EMPLOYMENT OF ARCHITECTURAL FIRM AND AN ENGINEERING FIRM
AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 89-44

Synopsis: Authorization to employ an architectural firm and an engineering firm and to request construction bids for the AmeriFlora '92 Technology and Horticultural Information Center project is proposed.

AMERIFLORA '92 TECHNOLOGY AND HORTICULTURAL
INFORMATION CENTER

WHEREAS The State of Ohio and the City of Columbus will be hosting AmeriFlora '92, which will be part of the 1992 Quincentennial Celebration of Christopher Columbus' first voyage to the Americas; and

WHEREAS AmeriFlora '92 will include a facility to be constructed on a site selected within Franklin Park to house horticultural and technological displays and horticultural education and information programs, with construction anticipated to begin in spring 1989, and be completed in fall 1991; and

WHEREAS at the conclusion of the year-long celebration this facility will be moved to a site to be selected on The Ohio State University Columbus campus; and

WHEREAS funds in the amount of $4,500,000.00 have been appropriated to the University for this project by Amended House Bill 810 (the 1988-90 Capital Appropriations Bill) enacted by the 117th General Assembly:

NOW THEREFORE
October 6 and 7, 1988 meeting, Board of Trustees

EMPLOYMENT OF ARCHITECTURAL FIRM AND AN ENGINEERING FIRM AND REQUEST FOR CONSTRUCTION BIDS (contd)

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural and engineering firms for this project, in conjunction with the Department of Administrative Services, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works; and

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 89-45

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to make the award of contracts for the Athletic Maintenance Building - North Athletic Facility project; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Bradford Commons Remodeling project:

ATHLETIC MAINTENANCE BUILDING - NORTH ATHLETIC FACILITY

Description: This project provides for the construction of a maintenance facility to house athletic equipment and materials necessary to maintain the athletic facilities and grounds and provide a service area for the Athletic Department's motor vehicles. Construction is scheduled to begin September 1988, and be completed by December 1988.

General Contract

Date Received: July 28, 1988
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

ATHLETIC MAINTENANCE BUILDING – NORTH ATHLETIC FACILITY (contd)

General Contract (contd)

No. of Bids: 14
Low Bid: $236,590.00*
High Bid: $315,713.00*
Estimate of Cost: $239,661.00*
Awarded to: M & P Construction, Gahanna, OH

Plumbing Contract

Date Received: August 15, 1988
No. of Bids: 3
Low Bid: $69,199.00*
High Bid: $70,980.00*
Estimate of Cost: $80,000.00*
Awarded to: Holdridge Mechanical Inc., Columbus, OH

HVAC Contract

Date Received: July 28, 1988
No. of Bids: 2
Low Bid: $52,800.00+
High Bid: $58,679.00
Estimate of Cost: $39,300.00
Awarded to: Farber Corporation, Columbus, OH

Electric Contract:

Date Received: July 28, 1988
No. of Bids: 7
Low Bid: $49,000.00*

*Recommended alternates reflected in these figures.
+HVAC and Electric Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

ATHLETIC MAINTENANCE BUILDING - NORTH ATHLETIC FACILITY (contd)

Electric Contract (contd)

High Bid: $ 65,893.00*
Estimate of Cost: $ 43,425.00*
Awarded to: Scioto Electrical Contractors, Lancaster, OH

Total All Contracts: $407,589.00*
Total Contingency Allowance: $ 19,876.63 (which is 4.9% of construction costs)
Total Project Cost: $450,000.00*
Funding: University Funds, Department of Athletics

*Recommended alternates reflected in these figures.

BRADFORD COMMONS REMODELING

Description: This project provides for the renovation of the south portion of Bradford Commons, a dining facility, into a Black Cultural Center for the Office of Minority Affairs. Construction is scheduled to begin September 1988, and be completed by January 1989.

General Contract

Date Received: June 7, 1988
No. of Bids: 5
Low Bid: $ 97,888.00*
High Bid: $132,988.00*
Estimate of Cost: $114,900.00*
Awarded to: Williamson Builders, Plain City, OH

Plumbing Contract

Date Received: June 7, 1988
No. of Bids: 1
Low Bid: $ 7,210.00*
Estimate of Cost: $ 7,345.00*

*Recommended alternates reflected in these figures.
October 6 and 7, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

BRADFORD COMMONS REMODELING (contd)

Plumbing Contract (contd)

Awarded to: C. W. Construction, Columbus, OH

HVAC Contract

Date Received: June 7, 1988
No. of Bids: 3
Low Bid: $87,900.00+
High Bid: $114,950.00
Estimate of Cost: $82,150.00
Awarded to: Aries/C.H. & V. Joint Venture, Columbus, OH

Electric Contract

Date Received: July 28, 1988
No. of Bids: 1
Low Bid: $46,579.00*
Estimate of Cost $63,055.00*
Awarded to: Advantage Electric, Columbus, OH

Total All Contracts: $239,577.00*
Total Contingency Allowance: $18,900.34 (which is 7.9% of construction costs)
Total Project Cost: $305,600.00*
Funding: University Funds

*Recommended alternates reflected in these figures.
+HVAC Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.
Upon motion of Mr. Kessler, seconded by Mr. Wexner, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

SALE OF REAL PROPERTY
92.6 ACRES ON HARRISBURG PIKE
COLUMBUS, OHIO

Resolution No. 89-46

Synopsis: Sale of approximately 92.6 acres of unimproved real property located on Harrisburg Pike in Columbus, Ohio, is proposed.

WHEREAS in December 1986, the Board of Trustees of The Ohio State University acquired by gift from Mr. Leonard J. Immke, Jr., approximately 92.6 acres of unimproved real property located on the east side of Harrisburg Pike near the intersection of Briggs Road in Columbus, Ohio; and

WHEREAS under the terms of this gift, the property is to be sold, and this gift is being used to support the Leonard J. Immke, Jr., and Charlotte L. Immke Chair in Cancer Research Fund to support the work of a distinguished researcher in the University's Arthur G. James Cancer Research Institute; and

WHEREAS T & D Properties, Inc., has offered to purchase this property for $300,000.00; and

WHEREAS the appropriate University officials have determined that this sale of the property is in the best interest of the University and it is the desire of this Board to accept the offer of T & D Properties and to sell all of the Board's right, title, and interest in and to this property:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees of The Ohio State University, to sell all of the University's right, title, and interest in and to this property to T & D Properties, Inc., at a price of $300,000.00 upon such terms and conditions as are deemed to be in the best interest of the University.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Teaford, Barone, Kessler, Wexner, and Mrs. Bowser and Ms. Casto, and an abstention by Mr. Immke.

--0--

219
October 6 and 7, 1988 meeting, Board of Trustees

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY
350 WEST DODRIDGE STREET, COLUMBUS, OHIO
Resolution No. 89-47

Synopsis: Authorization to grant an electric service easement to Columbus Southern Power Company is requested.

WHEREAS the Columbus Southern Power Company has requested a 15-year easement consisting of a strip of land approximately 20 feet in width and approximately 780 feet in length for the installation of electric service at 350 West Dodridge Street; and

WHEREAS the electric service will serve University property leased to the Franklin County Board of Mental Retardation and Developmental Disabilities; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Wexner, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

EASEMENT
TRANS-OHIO PIPELINE COMPANY
LIMA REGIONAL CAMPUS
Resolution No. 89-48

Synopsis: Renewal of a gas pipeline easement to Trans-Ohio Pipeline Company is requested.

WHEREAS in 1973 the University granted to Trans-Ohio Pipeline Company a 15-year easement consisting of a strip of land 30 feet in width and 2,365 feet in length for an underground gas pipeline on property located at the Lima Regional Campus; and

WHEREAS this easement has expired and Trans-Ohio Pipeline Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS this easement will serve both University property and others and the University will receive a fee of $5,540.00 for this easement; and

WHEREAS the appropriate University offices have recommended the renewal of this easement:
October 6 and 7, 1988 meeting, Board of Trustees

EASEMENT
TRANS-OHIO PIPELINE COMPANY
LIMA REGIONAL CAMPUS (contd)

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REPORT – UNIVERSITY’S INVESTMENT PORTFOLIO
Resolution No. 89-49

RESOLVED, That the report on the University’s Investment Portfolio, dated September 16, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

--0--

Thereupon the Board adjourned to meet Thursday, November 3, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman
Page 222 is blank
Page 224 is blank
The Chairman of the University Board of Trustees, Mr. Leonard J. Immke, convened the meeting of the Board of Trustees and University Hospitals Board at 4:45 p.m. in the Alumni Lounge of the Fawcett Center for Tomorrow.

* * * * *

University Board of Trustees Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

The Chairman, Mr. Immke, called a joint meeting of the Board of Trustees and University Hospitals Board to order on November 3, 1988, at 4:45 p.m. He requested the Secretary to call the roll.


Mr. Immke:

I'm delighted that we could meet today in joint session to consider some of the more important issues which the Hospitals, as well as the University, must grapple with over the next several years. Before we move to the main purpose of our meeting, I would like to take this opportunity to express the Board of Trustees' thanks and appreciation to members of the Hospitals Board, current and former, who have contributed in such a noteworthy manner to the work and accomplishments of our Hospitals.

We have indeed been fortunate over the years to have men and women of your stature, commitment, and dedication to serve as members of the University's Hospitals Board. All of my colleagues join me in expressing our thanks for a job well done.

At this time, I would like to ask Dr. Tzagournis, together with his associates, to lead us through the agenda.

Dr. Tzagournis:

Thank you, Mr. Chairman. Approximately three years ago, the Board of Trustees and the Hospitals Board met and asked the President to develop a long-range strategic plan for the medical center. We are happy to report that we are prepared to do this today. I would like to introduce the subject and spend a very short time doing that and then briefly, Ron St. Pierre, who chaired the committee, will summarize the College of Medicine's strategic plan, and Jim Nichols will summarize the Hospitals' strategic plan.

A number of changes have occurred in the past decade in academic health centers. There is nothing unusual about that, but it has happened. It probably isn't the most difficult thing that has happened, either. I suspect it was a lot more difficult to amputate somebody's leg without anesthesia 100 or so years ago, and the advent of anesthesia revolutionized hospitals, operating rooms, patient care, and so on. But at any rate, it has happened. Some of the key things that have happened are as follows: one is that the reimbursement or the way the payers pay hospitals in academic health centers has changed drastically. Up until a few years ago, the hospital would submit a bill for its costs for a patient's care each year to Medicare or to Blue Cross/Blue Shield, and they would be reimbursed that amount. That abruptly changed when prospective
payment came into being and now, basically, the government has said, "Well, we will pay you so much for somebody who has had a heart attack and is in the hospital an average length of time, or for an appendectomy." This changed drastically.

Another thing that has changed is that our institution has become a much more research-oriented institution than it has been in the past. We have been very good in teaching, developed a fine reputation nationally, and we have been a good patient-care institution. We now have a whole new set of problems with recruiting researchers, investigators, and trying to buy the equipment and developing the laboratory space for them.

Finally, there have been changes in medical education. For example, since prospective payers now expect somebody who has gallbladder disease to come in that morning and be operated on later in the morning, and then be in the hospital, this changes the way a medical student can spend time with that patient and get a history and physical examination, as we use to do in previous days. There has to be much more ambulatory teaching and out-patient teaching now than there was in the past. Also, medical students are learning totally different ways of practicing medicine from the MedOhio concept, to HMO's, to PPO's, to hospital in-patient.

So, we have tried to take all this into consideration to develop a plan. The plan is basically a process to determine objectives, to have the ability to change those objectives, and then to be in a position to attract the resources we need, and to establish policies on how to acquire those resources, and then expend.

We had a great number of meetings, negotiations, consensus forming, and the process has been a very valuable one. There are a number of ways that one could do this thing. We had an example of that recently on a Saturday morning when three colleges on campus each developed a strategic plan and each one developed it differently. We developed ours differently.

I just have a couple of slides to show you on some other aspects of this that impacted us tremendously. In 1980, the Geminac Report, which is a major national report, estimated that there would be 70,000 excess physicians by the year 1990, and 150 surplus positions by the year 2000. Therefore, the government basically stopped capitation funds and a number of other funds that they were giving medical schools. And medical students finally caught hold of this and said, "My goodness, I'm not going to spend 8, 10, or 12 years in training and then go out and not be able to get a job." So, individuals interested in medicine decreased their interest to some extent, and you will see that in a moment. Notice that this was in 1980. This was before the first case of AIDS was diagnosed. This is before people realized that 35%-40% of all medical school students are females. Females have now been shown to spend about 8%-10% less time in practice, taking time off to raise their families and
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. Tzagournis: (contd)

take care of their children. The aging population wasn't fully considered and, importantly, the surplus, by most people's estimates today, are really gone. It looks like we are producing just about enough physicians and they will all be needed. That is the latest consensus among medical educators. The students have not heard about it yet. Because as you can see, here is what is happening to national applicants over the last few years. This is what has happened to Ohio applicants. There is a dramatic decrease in the number of applicants that are applying to medical schools throughout the country and in Ohio. Accordingly, we've had to change to a recruiting stance for good medical students, competitive medical students, whereas a few years ago we just sat back, let people come to us, and then chose the best out of the thousands of people who applied to medical school. Again, a large change and an important change.

In the last six or seven years we have had a dramatic increase in the number of grants and in the amount of dollars funded by outside agencies, including the National Institute of Health. This makes a big difference. Ten years ago if we needed a cardiovascular surgeon, we basically recruited somebody who was a good surgeon, could come in and operate on people and do a good job, and he didn't need any money. He needed basically an office, a resident, and what we had readily available to us. Now, to recruit a top-notch transplant surgeon who is going to do research, who is going to do something on the cutting edge, we have to provide laboratories, calves for the artificial hearts -- I know some of our Hospitals Board members heard the talk that we had at one of the Board meetings -- and a whole host of new and different things.

Over 200 of our faculty members were interviewed, studied together, had several retreats, fifty members of the Hospitals Administration, Board Members, our referring physicians, our consumers -- all of this information was put together to summarize a plan. A plan that told us how to deal with present circumstances and how to approach the next few years. This took into account also how we can become a better medical center, a more distinguished one, a more recognized one. Our goal and objective is, basically, to become one of the top 10 medical centers in the country. We have had tremendous support for this plan. Chuck Lazarus advocated it from the very beginning, worked throughout this entire time making sure we did it, along with many of the other Board Members. We appreciate the support that we got from our colleagues in the central administration, and particularly the leadership of the President. He has been very responsive to our requests.

Some of these strategies have already been implemented. Let me give you an example. We have already decided that due to the competition, due to the changing environment, we have to have more practicing physicians and teachers in the Hospitals. We cannot have only researchers. Again, with the help of the University we did get through a non-tenure pathway for some of these individuals. We now have almost 400 regular faculty
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. Tzagournis: (contd)

members and 65 of these are on that non-tenure path, which allows them to practice and to teach medicine, but not have to do research and worry about getting tenure.

One of our other strategies is that we now need to have a primary care network to take care of our patients and be able to refer some of these patients to the Hospitals, because HMO's and PPO's basically capture some of these people. In the past, all of them were able to come to University Hospitals, that is not true anymore, financially. So, MedOhio and some of our other satellites were established. This is the type of thing that we have already started to do and we hope that we can continue to do this and make changes along the way. I would like to stop now, because I assured everybody that this was going to be brief, so that you can ask questions and we can have a dialogue instead of a monologue. Thanks for listening to the introduction. Ron --

Dr. St. Pierre:

Thank you, Members of the Board. I would just like to reaffirm a couple of things that Dr. Tzagournis has said and that is the tremendous number of people that have been involved in this. I have a list of the members of the Strategic Planning Task Force and in talking to this group, in many ways is like preaching to the converted. Because in the room today is Shirley Bowser, who is a member of our Strategic Planning Task Force; Weldon Ihrig, who is a member of the Task Force; Kathryn Clausen, who is the elected Chief of Staff of the University Hospitals; Mr. Charles Lazarus from the Hospitals Board; myself; Dr. Tzagournis; and Mr. Vorys from the Hospitals Board. I could go through the number of people that have been involved and have been contacted by the Task Force activities as we've developed what we have for you tonight.

In your packet you should have a two page summarization. This is a summary of a summary. Someone once said, "a strategic plan should be put on two pages," and it took us a good deal of time to get it down to two pages. What we have done is to take the key elements, the five strategies from the College of Medicine and some seven strategies combined to make a single strategy for the University Hospitals and Clinic, and give you the essence of what we want to talk about here. We also have provided for you on that sheet with some page numbers so that you can turn to those pages that incorporate those particular strategies.

My responsibility would be to talk to you about the five strategies of the College of Medicine. If you like, what I'm going to do is simply to take the first one on page 8, which is the education strategy. As you can see here, the principal strategy of the College of Medicine for the education strategy is to reduce the class size by 2% per year for the next 5 years. And to continue to modify clinical education experience and strengthen graduate medical educational programs directed by changes in clinical practice and the overall commitment to the
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. St. Pierre: (contd)

College of Medicine becoming a top 10 medical school in the United States.

I should point out, as Dr. Tzagournis mentioned, there are a number of changes going on in major medical centers throughout the country. As you will see here in the brief directions we have given, in terms of the way the strategy will be carried out, there is not a significant modification in the overall undergraduate, that being the Pre-MD portion of the medical education. We feel that the content is appropriate, but what has to happen is that there has to be a change in the emphasis. That is really number one, up there, to modify the teaching focus, to get more into the ambulatory setting, to deal more in the out-patient services, and to get more into physicians' offices. We want to think more about a total patient perspective, to work as most major medical centers should towards aggressive and innovative technology and procedures. In my humble opinion, that is the one thing that differentiates an academic medical center from other kinds of medical facilities. This is where innovative technology and new procedures should not only be developed, but should be assessed as to their quality and their efficacy.

As Manny talked there have been many changes, in terms of the health care delivery system, and we have to utilize those referral areas as training sites to supplement OSU Hospitals and Clinics. As we become more and more involved in tertiary medical care and beyond, we have to rely on other sources for the primary and many of the secondary care activities. We have to maintain the full range of educational experiences from medical students all the way through allied health students, including continuing medical education and post doctorate fellows. We need to attract quality students, because one of the keys to assessing where you stand relative to your competitive peers, is the quality of our students and the achievements they get in terms of placing them in leading residency programs throughout the country. We also have to recognize the importance of graduate medical education.

One of the things that is becoming very apparent is that research has become much more competitive in the last few years. The acquisition of research dollars is becoming more and more difficult. There are more and more people out there competing for them. There are more and more medical centers that are competing for the same kinds of dollars. We have a significant need to increase our extramural research activity. We've set for ourselves a goal of 15% to 20% per year. Over the last three years, there has been an acute increase that would reflect that, as Manny showed you on the last slide he presented.

We need to coordinate the areas of existing and potential strength, not only within the Hospitals and the College of Medicine, but in the University. We have to become a focus for many of the research activities that would involve colleges that are not normally associated with University Hospitals. We have to establish criteria -- and I will talk about that -- for
evaluating and monitoring criteria, priorities, and emerging opportunities within our existing strengths. We have to become more self-sufficient. There has to be a greater college control over the priorities and the additional seed funds that are available to the College. We have to remember that many of the faculty members that we're asking to do these kinds of research activities are people who still have clinical responsibilities, and we have to maintain a supportive environment as a two-way street with University Hospitals.

The resources, again, just to reaffirm what I have said, we are going to have to look more to ourselves and to areas of opportunity than to simply think that we can go to the well all the time. We have to look at reallocating our existing revenues, increasing the funding for research, from endowment, from development sources, and targeted federal and state activities that are available to us. We need to increase the amount of funds available to the Dean. There has to be more central control over the ability to fund emerging priorities, strengthen development efforts, strengthen the support to the Hospitals so we can continue to have an environment that enhances the College's development. We have to initiate or respond to state funding opportunities for specific programs that we should be the leaders in. We have to initiate or respond to opportunities for federal support. We have recently done that in two significant areas, in terms of the AIDS clinical grant which brings significant dollars for research and for patient care in this critical area to University Hospitals. We also are involved in a regional AIDS education and training grant that was an initiative by several individuals. We need to look more long-range in terms of our budgeting. And most critically, at the five-year space development plan, because we are now running out of space.

Who are the people we are going to look to for this? Well, we need to recruit as well as retain faculty members who are consistent with the requirements of the College's educational and research strategies, or -- and I would emphasize the or, because it is becoming more and more difficult to become a triple threat academician in the academic medical center. We need to have faculty members who are dedicated to the educational and research activities or those people who are dedicated to quality patient care, innovative patient care, and will serve as delivery goals of University Hospitals and Clinics. And you can see the directions, we have to get out and compete for these people, people who are going to bring research dollars into the medical center. We are going to have to find and encourage and reward the increased participation to gain a national prestige, because that is one of the significant criteria for where we stand -- what kind of prestigious societies do our faculty members belong to, upon what editorial boards do they sit. We have to increase the number and desirability of the clinically-oriented physicians to meet the patient service demands and needs. I can't tell you how important the regular clinical track has been to the College of Medicine over the past four years. It has allowed for that
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. St. Pierre: (contd)

increase in research dollars being brought in, because we now have a very highly desired group of faculty members who are engaged in clinical teaching and clinical care. We have to adjust the faculty size to both improve the educational research, as well as the clinical environment for the faculty.

This is probably the most innovative and revolutionary thing that has been done within the College of Medicine in recent years. And that is that we have a tremendous consensus from among the faculty of the nineteen departments, the School, and the major divisions within the College of Medicine, in terms of establishing what will be our initial selected areas of emphasis. This was done by having the Executive Committee of the College of Medicine determine what particular areas we wanted to look at. You can see that we have established twenty areas that we felt we had some responsibility for and expertise in. Then we developed five criteria, not in any sense of priority order, but more like a yardstick. Those five criteria that would be held up to each of these areas of opportunity or emphasis to see where they stood were: has this particular area clinical importance for OSU Hospitals' competitiveness; is it multi-disciplinary in nature, not singularly oriented to one particular department or individual; does it draw upon a strong research (basic science) component; does it exhibit a strong presence within the OSU system, generally; do we have some strengths within Dentistry, Optometry, Pharmacy, Mathematical and Physical Sciences whose faculty members can contribute to this; and lastly, do we have established leadership that can take hold of this. As these priorities came back and we put them into order, you can see that those top six and the others are in priority order. There is a clear break between number six and seven. Number six being Geriatrics/Gerontology, and a nice break from that to Molecular Genetics. But you can see cancer, neurosciences, transplantation, cardiovascular, women's and children's health, geriatrics and gerontology. These will be the areas that will be sited as we begin to put scarce resources into new areas of activity.

I was asked just recently by several people from a particular area of the College of Medicine, "What if we don't like the strategic plan or if we have different activities within the Centers of Emphasis? Do we not get to exercise those?" No, a gun is not going to be held at anyone's head. They said, "Well, will we still receive support from the scarcest resources?" The answer is clearly no. But no one is going to be left out if they can find their own funding.

Notice the thirteen areas of opportunity, how will they raise their level of visibility? Primarily by this, that we need to establish an ongoing program of review by a committee that will consist of representation from the College of Medicine, the College of Medicine Administration, and University Hospitals that will establish and evaluate and continually monitor these Centers of Emphasis. As some are well off on their own, which from the lower portions will work their way up and receive more appropriate visibility.
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. St. Pierre: (contd)

Those are the five areas of strategy from the College of Medicine. I would be happy to respond to any questions you might have or shall we let Jim go ahead with his areas of University Hospitals and talk about it collectively.

Mr. Teaford:

We just might add, doctors, that we did, as a Board, adopt the Affirmative Action Plan of the College of Medicine, as a sixth strategy. And likewise did it for the Hospitals.

Dr. St. Pierre:

Good point. That was just done recently. Jim --

Mr. Jim Nichols:

This is not on a slide, but I thought I would read to you the Core Strategies of the Hospitals and Clinics: improve market responsiveness and competitiveness of OSU Hospitals and Clinics; support the medical staff in developing a geographically distributed physician network; and establish a service network to attract the necessary patient volumes, consistent with College of Medicine's Core Strategy, that we have just covered.

The seven principal strategies of the OSU Hospitals and Clinics are broken into two parts: 1) market responsiveness and competitiveness; and 2) physician and services network.

Under the Structural Strategy, the first one is to improve the flexibility of the OSU Hospitals and Clinics to respond to marketplace changes. I think that the word flexibility is one that needs to be underlined here. Clearly, the strategic planning process of the Hospitals and Clinics, and also the College of Medicine, needs to be an ongoing type activity that is constant. In other words, it is not run one year and put up on the shelf for five years and then done again for another five-year period or some other applied period of time. There clearly is a very strong need, with regards to our structure, to be constantly reevaluating what we want to do. That integration and flexibility between the College of Medicine and the Hospitals and Clinics, and the other health sciences colleges is very important.

The other key point in this strategy is to improve communication among and between the College of Medicine, the Hospitals, and the other health sciences areas, as well as the main campus. It is extremely important that as we decide how we are going to move forward, that we move forward as a cohesive group in our activities.

With regards to the Financial Strategy in the improvement of the financial position of OSU Hospitals, cost effectiveness becomes a very key issue, as well as other creative ways to provide funds. I think one of the major issues that we need to work on is a clear awareness among the employees, medical staff, College
of Medicine personnel, and the entire health sciences area is the need for cost effectiveness. I think often that that point is not driven home enough and it is clearly an issue that needs to be continually strengthened with our employees.

In today's competitive health care environment it is going to be extremely important to work on our productivity. There is no question about it. The federal government, primarily for Medicare and Medicaid, is controlling the amount of revenue that is going to come in for the large parts of the hospitals, and other third party payers that we have are also using various controls to hold down their costs which decrease our revenues. As a result of that, efficiency, cost effectiveness, and productivity becomes very key and an important point with how we need to operate the University Hospitals.

In short, with regards to the Hospitals and Clinics, we need to function very much -- we are really no different than a business. We do have a teaching and research mission, we do have a patient care mission, there is no doubt about that, but with regards to our business activities we need to begin to function more and more and think more and more like a business.

I am only briefly going to touch on the Centers of Emphasis Strategy, which really coincides with the College of Medicine. I think Dr. St. Pierre has covered that very well, but I only want to comment on the areas that are initially selected for emphasis are clearly those that are also being focused on by the Hospitals and Clinics. As we work on our marketing efforts and our public relation campaign, those are the six areas that are going to receive the major concentration.

With regards to a Consumer Strategy this is an extremely important point that needs considerable additional work at the Hospitals and Clinics. We need to create that user-friendly environment. We are talking about the Clinics building; we are talking about Ambulatory Surgery; we are talking about access to the medical complex; we are talking about the patient feeling good about their experience or as best they can about their experience in the hospital. You know as you work with a patient, their families and friends, as they come into the hospital, you can do a hundred things correctly, but if one or two things go wrong -- it doesn't have to be something that goes wrong with the medical staff, it could be something that goes wrong with the housekeeper or something that goes wrong with someone in the dietary area -- that bad experience creates a sour taste in our customer's mind. This is what we are trying to avoid. It is going to be very important to understand the areas that our patients are most interested in. We need to coordinate our ability very carefully in order for them to access these areas and receive care in a timely fashion. We have already started that in several areas, with both a patient and financial ombudsman with regards to those particular problems. But the entire area of access, signage, and so on, that many of you are familiar with, is clearly an important
Mr. Nichols: (contd)

issue. These are some additional areas with regards to user-friendliness that are in your books.

With regards to a Marketing Strategy — with the situation we have in today's health care market we can really no longer sit back and expect that the people are going to come into University Hospitals. They will come in for tertiary type activities, many times because of the particular medical schools we have, but for many other activities we are going to have to be much more aggressive in marketing our skills to the general public. And in marketing them, frankly, to the physician network areas. This, in essence, will become our principle communication strategy and our principle operating strategy for the Hospitals. We need to clearly capitalize on the strengths of the faculty, clearly capitalize on those areas of emphasis that we talked about previously, and we clearly need to develop a very strong and focused campaign that is appropriate for a university medical complex, a tertiary care facility in the marketplace. I don't think we are aiming, and we are not aiming, for a Riverside situation or some other situations that you have seen around the State. But we need something that is appropriate for our medical staff and our particular mission with regards to medical care, teaching, and research. That is primarily going to come from focusing on the principle areas of strategy that we have.

In regards to the Local Area Strategy, again, we are primarily talking about our out-reach program. MedOhio is an example of that. Another example of that is the Stoneridge that we discussed at the Board of Trustees' retreat. SkyMed is another example of that. These and other models that we are working on are typical of those kinds of local area strategy — that is being in the Central Ohio area — necessary for us to get greater penetration. We need penetration because we need the referrals from the physician networks into our attending physicians so that we can continue with the appropriate patient mix for our teaching and research missions. It also ties in clearly with our abilities to assist the medical staff in identifying those physicians who are in the community and wish to affiliate with University Hospitals. There have been some considerable strides made in this area in the last couple of years. We anticipate that there be other initiatives that will be coming to the Board of Trustees in the future and also to the Hospitals Board.

This is the second slide on the Local Area Strategy. We think one of the areas to do that is the strengthening of continuing medical education, as well as the Speaker's Bureau and working with our alumni groups. Just like we think of working with our alumni of the University, in terms of areas like fund raising, we need to think in terms of working with our College of Medicine alumni in terms of developing our physician networks for a referral basis.

Finally, with regards to the last strategy — Referral Area Strategy — you will find that the referral area now extends
Mr. Nichols: (contd)

beyond the Columbus area and includes virtually all of the counties in Southern and Southeastern Ohio and also into other states. As you all know, we receive about 50% of our patients from outside of Franklin County. We have a very significant and positive reputation, probably better outside of Franklin County than inside Franklin County. But the strengthening of that entire referral area is very crucial. An example, I think, that best illustrates the situation -- there are two hospitals in Portsmouth, Ohio, that used to give significant referrals to the physicians at University Hospitals. As you are aware, those hospitals were purchased as part of the U.S. Health Corporation, the Riverside Umbrella Corporation Health Care. We don't get referrals from those hospitals anymore. That is not to say that we are going to go out and acquire hospitals in Portsmouth or some other city, we are not going to do that. But those relationships that we established with hospitals and specific areas of strength among our faculty are very crucial in getting them to come in. We have been talking with people more and more in the last year or so. Currently, we have discussions going on with three or four hospital areas and physician groups outside the Central Ohio area that will lead to the kinds of referrals that I have been talking about.

Again, we feel that the programs that we need to work on, our principle programs, need to be consumer oriented. Again, the business side of the issue. The need for the physician networks for feeder purposes and referral areas, as well as the Hospitals in the feeder area are really crucial.

The referral issue, with regards to the hospital, is very important to providing enough revenue and enough profit, so we can hire the quality of employees that we want; we can purchase the types and amounts of capital equipment that are important; we are able to upgrade the physical plant; to add new additions to the physical plant, all for the purpose of supporting the teaching and research missions of the College of Medicine and the Hospitals. I think that really becomes the bottom line with regards to the entire financial issue. As you know, there are no shareholders to worry about in the sense of having to divvy up or send out dividends or create profit, but the more efficient we are at the Hospitals, the better we are at making a stronger bottom line and the better we will be at providing the employees, the equipment, and the physical plant. All of which are necessary to carry out the overall mission of the University. Dr. Tzagournis --

Dr. Tzagournis:

That is the end of the monologue. We are ready to tackle questions or hear your comments; not only the three of us, but I think, Dr. Clausen and Dr. Mekhjian are here and are willing to answer questions.
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Mrs. Bowser:

Manny, tell them what their titles are so that the Board will know.

Dr. Tzagournis:

Dr. Mekhjian is Medical Director and Dr. Clausen is President of the Medical Staff.

Mrs. Bowser:

Charles, it is up to you.

Mr. Lazarus:

My questions have been answered.

President Jennings:

All of them, right Charles?

Dr. St. Pierre:

I think it is important for the University Board of Trustees to know that we fully recognize that University Hospitals is essentially the clinical laboratory, not only for the College of Medicine which includes the School of Allied Medical Professions, but also is the site where clinical training goes on for a small portion of the College of Pharmacy — the Division of Clinical Pharmacy, within the College of Pharmacy. There is some training that goes on in the College of Dentistry and, of course, the College of Nursing. I met, over the course of the development of this plan, with not only the Deans of those Colleges, but in many cases with their own strategic planning groups that are active. In fact, Dean Cassady of Pharmacy has co-opted me to serve on his long-range plan. I think it is important to keep those kinds of things in mind, because while the programs are not nearly as large and extensive as the one for the College of Medicine, it clearly is one of the reasons for being.

Mr. Bennett:

Over the next eleven to twelve years, as this plan becomes reality, one of your objectives is to involve the Hospitals Board in the process of strategic planning. How will we track and monitor progress as the years go by against — are there going to be benchmarks established? How will we know how well we are doing, in terms, of meeting timetables on that plan?

Dr. Tzagournis:

Ron -- he is Chairman of our Committee --
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. St. Pierre:

One of the things I normally say when I start a presentation about strategic planning is that this is really nothing more than a summary progress report, because it will be ongoing. There will be no stopping and starting point. As we move into this process, each side in this particular strategy of University Hospitals and the College of Medicine, is going to have working groups that will be dealing with each of the major strategies. Obviously, the Hospitals Board has its own strategic planning committee which will develop how they will monitor. As these groups begin to flush out the five skeletons that we showed here, at least as it stands with the College Medicine, they will set goals, timetables, evaluative points, and those mechanisms by which we'll know we will be making progress, and they will report back and forth. The Board, as this structure dictates, will become the monitoring group for both sides of the plan. So, I think as we develop this as an evolutionary process, we develop those kinds of benchmarks and evaluative criteria that will tell us where we are going and what directions we should alter. We are in a very dynamic environment and we may be making a lot of effort and no progress, and we would then have to change our strategy. I think that is one of the key features of any kind of strategic plan, the ability for us to be flexible.

Mr. Nichols:

I think, from the point of view of the Hospitals, the next step is really to develop the operating plan and road maps on how we are going to proceed in each area. Part of that will clearly be a benchmark as to how we are doing.

Mr. Teaford:

It seems to me that part of that, too, is that when things come to the Hospitals Board, any new innovative ideas, they all have to say "this is in fulfillment of this part of the strategic plan." In other words, it shouldn't come to the Hospitals Board without an explanation about where it fits.

Dr. St. Pierre:

I think that is true. Also, the Office of Academic Affairs and the Provost have determined that all colleges are going to begin strategic planning. That is going to be the mechanism for which the budgeting process proceeds. So, the Provost and his staff are going to require that each of the Deans come in and as they establish various requests that go to the University, it is going to have to coincide with the strategic plan and its impact.

President Jennings:

Ron and Bill, along with your question about measuring, maybe Myles, you could say a word or two about what is being done on the institutional-wide basis — which is virtually identical to this, but also is addressing the measuring issues, too.
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Dr. Brand:

I apologize, I have no slides. About a year, eighteen months ago, we started university-wide strategic planning. The main feature of that planning is that we are not trying to create a university-wide single plan, but rather we are asking each college to develop a plan for itself. The College of Medicine did not have to be asked since they are already underway through the efforts of the Hospitals Board. But we expect each college to come up with a plan, for themselves, similar to the kind of flexible and goal-oriented planning that is taking place in the College of Medicine.

In the past, we have had an annual budget process by which colleges would come forward with requests. The first year I was here, I had no way of determining how that fit into the overall development of the college. Was this a haphazard request or was this part of a long-range development? What we need to have is the strategic plans, like this one, to drive the budgetary process that will be in place approximately December 1 of this year. And so next year's budget process, when we allocate funds this spring, as we do for the College of Medicine and any other college, we will do it on the basis of goals and objectives that the college has set.

One thing I should emphasize, and Ron spoke very well about this, but let me reemphasize this, is that the process here is at least as important as the outcome. It is the process of getting people involved and it makes no sense to charge up the hill by yourself. People have to come along, be part of the process, and accept the goals. Yes, there will be outlyers. You won't be able to bring everyone aboard, but you have to have consensus so that everyone is pulling in the same direction and working together -- not university-wide, because each College on a decentralized model must develop its own strategic plan. Then from central administration what we need to do is two things: coordinate those plans, so that they are not in opposition to each other; and find ways to support university-wide endeavors -- multi-college efforts -- no single college can develop its own effort. For example, Biotechnology and Molecular Biology as you listed on your second list yes, that involves the College of Medicine, but it involves a biotec center, the College of Agriculture, and the bio sciences, pharmacy, math and physical sciences. So, we can't ask the College of Medicine to do all that, we have to coordinate it with each other. Secondly, there are some activities that are university-wide, that we all have to bring to bare, such as the libraries. No one college can support the libraries, and we can't be a great University without great libraries. Similarly, with information technology and computerization that supports the entire campus, and we need to do that in a way that is supportive of the various activities of the colleges.

How will we measure this? We will set up benchmarks, clear benchmarks. I think of the planning process as a five-year process, plus or minus a year or two, with constant revisions. We know more about next year and the third year, a little less by the fourth and fifth year. As we get out, we expect changes,
and we expect the process to continue. That is the nature of the process. But we have to set up benchmarks so we can respond to the changing environment, so we can take advantage of new opportunities. For example, as we attract a Nobel Laureate to campus who is interested in theoretical physics and condensed matter physics, this is an area we are obviously going to move in. We are going to take advantage of that opportunity. It was not present a few years ago. So we need to be able to be flexible and respond. That is a brief answer.

President Jennings:

I think that is a very good answer. I think the thing that really does need to be emphasized, what Myles said, is the process, particularly in an academic institution, is more important than the particular activities. Because, most of the great results that we may hope to have are not predictable in the sense that they are in most other operations. Myles mentioned attracting a Nobel Laureate in condensed matter and physics. That is an accident, in the sense that Ohio State has become one of the world's major supercomputer centers. That now moves the process to a different type of activity. Ohio State is becoming a major heart transplant and transplant research center. Because of that fact, we attracted a few years ago, an outstanding surgeon from the University of Wisconsin, Dr. Myerowitz. It is that type of flexibility. I think the plan you just saw is an extraordinarily good one in the context that it is flexible and it does allow for that type of accidental activity. But remember when I say it is accidental, not accidental that you get somebody excellent like a Hank Myerowitz, it is accidental as to what you get from him. We can't always predict that, but if we know going after it, we are going to get something outstanding on the activity.

Myles, for example, is being somewhat modest. This Board of Trustees was given a presentation a few months ago on materials science, where Ohio State is doing some extraordinarily innovative work in materials science. We pretty well know that we are going to have a Center for Materials Science very soon. But let's, at Ohio State, wait to establish that until we have seen all the strategic plans and how that fits into it. We are close enough in that activity.

Another thing, I think, that has changed is that in times gone by, we could, without a lot of planning, take advantage of our strengths. We knew we were good in chemistry, we knew we were good in political science, we knew we were good in dance, and we could take advantage of that. Over the years, we have exploited those opportunities. The decisions now are getting finer. It is just not obvious as to what we should be going into, as it has been in times gone by. That is why the planning process is coming along now.

The other thing that Ohio State is way ahead of the rest of the academic world in is our program review mechanism. As you all recognize, we were criticized in the press fairly recently over
at WOSU, which was going through our program review mechanism. The criticism was essentially, "why was this happening?" That is the essential key of accountability, that we can't measure it on a quarter to quarter basis. But what we need to do consistently is every five years, and that is a pretty good cycle, is get outsiders to come in and take a look at us and tell us where we're good or bad, or where we are weak or strong. That is the key to accountability. That is why Myles says it is a five-year plan. That is why when the press asked me, for example, "what I am going to do about WOSU?" My answer was, "I'm going to wait until the process is finished." Because the last step on WOSU, of course, is what we call a memorandum of understanding, which is the five-year plan with the measurements in it. And we aren't going to go into it now. That becomes the key ingredient on a collegiate-wide basis, but also on a public broadcasting basis.

I think that the other thing that needs to be said is that the Hospitals Board has done an extraordinarily good job in working on this, in providing some of the motivation, providing some of the tough decisions on developing this planning process, not only for the Hospitals, but for the College of Medicine. It is absolutely essential that a teaching hospital and a medical school work together. There are going to be tensions. There is no doubt that there are going to be tensions. When Manny talks about his research grants going up, doubling in five years, that is marvelous. But it is not so marvelous for the Hospitals, because those things by and large are expensive for the Hospitals. But working together like that and doing things together is an extraordinarily important thing. And I think this plan presents an opportunity for the institution really to make progress in Medicine.

I also might add that we have now a practice plan that is basically working. There is always tension there. But it is a good plan and a plan that is consistent with most other great university teaching hospitals. It is going to be hard to accomplish this. The thing that, I think, is absolutely clear is that they will accomplish it long before the world recognizes its been accomplished. Reputations take a long time to change. We will be one of the top ten medical schools, but it won't get recognized for probably ten years after we become one. I have preached enough.

Mr. Teaford:

One more thing that the Board of Trustees should appreciate, is that this is being submitted to us for our approval and that the Hospitals Board does expect our action on this. I think that it is important that we do that. So, I think, that we need, as the Board of Trustees, to -- if we have questions about this, we need to address those now to the Hospitals Board. I, as a part of both, think it is a wonderful improvement to our process as the Board of Trustees, and I want to make sure that we understand it and do adopt it.
Mr. Teaford: (contd)

There are a couple of things that Shirley wants to point out on the summary that call for a discussion, and I think that we ought to make sure that we have that discussion.

Mrs. Bowser:

Part of being a good Trustee is asking the right questions, right? I know that this is a large document for the Trustees. They have had time to read it and I am sure that they appreciate the summary, but I would like to ask both the College of Medicine and the Hospitals to point out some areas in this where there is a difference of opinion, or where you feel that the Trustees should certainly know that there is going to be some difference of opinion or a problem. I don't know if you, Jim, want to start that off or if Manny does? I went through this three-year process with you and I know that it has been thoroughly done. When you get that many people together, you are bound to have differences of opinion. I think that is healthy. So, maybe you could just sort of summarize some points where the Trustees should be aware that there is a difference of opinion. Ron --

Dr. St. Pierre:

Mrs. Bowser, I don't think there is any of these strategies that you couldn't say there was some degree of conflict — I think "tension" has been used, which I like. Because tension in many respects is healthy and it is good that we have it.

I think that you will find that there are significant people, within the College of Medicine and on the Dean's staff, who would say that our process of reducing by 2% per year the number of students, is not enough. That given what the demographics show, we may be — if we stay at that particular level — we may be taking students that will require our educational process to take a longer period of time, a great deal more remediation, etc., etc. But, I think there we are going to have a give and take, back and forth. We probably are in a position where, unless we have some very innovative ways, we are not going to significantly increase the number of faculty, which will cause the ratio to be adjusted enough and really give the kind of support to the research activities that we have. So there is a little tension there.

I don't think anybody is going to give us any difficulty, both locally or in our wider environment, in terms of wanting to increase the amount of extramural funding. The President pointed out though that it does become expensive if we expect those kinds of activities to go on within the University Hospitals area. The University Hospitals and the Board have been very responsive to providing research opportunities in the case of giving the environment the appropriate ambience for the person to carry out the work. Heart transplantation is a perfect example.
The resource strategy -- notice what we are doing -- we are going to be looking towards ourselves. We talked very quickly about enhancing the practice support -- practice dollar support. We may be in a very amicable situation right now, but I think that we have to pick and choose our battles as to how we off-set that. Because the amount that comes back to the dean, relative to our competitive peers, is less in our particular college. Michigan invokes a much bigger tax on their faculty.

Faculty recruitment -- I don't think we have many problems within the College. We will have, at the next meeting of the University Senate, a discussion of the continuation of the regular clinical track. The Provost asked a review group, in response to the mandate from the University Senate when the regular clinical track was approved, that in the fourth year there be a review. There were significant individuals who felt that the cap, which presently is at one-third the number of regular faculty, that that cap be either greatly raised or removed. So that it became the responsibility of the department chair, the dean, and the provost to determine the appropriate balance given the needs and responsibilities of the particular unit with the College of Medicine. That, I think, is going to make a real impact. As the review committee reviews the present situation, we are not in a stance where all of the clinical departments are bumping their heads against the ceiling, but we are rapidly approaching that. I want to emphasize that I don't think there is a clinical department chair that doesn't feel that that is a very important component to his or her ability to carry out the mandates of this strategic plan.

The Centers of Emphasis -- I have already said that there are some people who are in the lower category and want to be in the upper category. But as I've used the analogy, "that if you stick around long enough, pretty soon your horse will come around, so that the brass ring is within reach." What they have to do is persevere and to work within this. I think that if we can give some sense that eventually your key project is one that is going to make it to the top, then that degree of disaffection with the process will be reduced. That is where I see the tensions within the College.

Mrs. Bowser:

I think that is helpful.

Mr. Teaford:

One of the ways, I presume, your Center of Emphasis moves up is that if you attract enough extramural funding so that they feed themselves.

Dr. St. Pierre:

One of the areas that is down there, within that second category, called "Molecular Genetics." If, through the Provost's Advocacy Program, we can get a Nobel Laureate within
Dr. St. Pierre: (contd)

molecular genetics, I can almost guarantee that will move to the top.

Dr. Tzagournis:

Dr. Clausen spent a lot of time in the trenches and she might very well be able to identify a few other of the problems.

Mrs. Bowser:

I just think it is helpful to know what these are.

Dr. Clausen:

Well, I don't think there is any question that one of the reasons we summarized it so briefly, was to abstract out of a 64 page plan -- taking away the God and motherhood issues -- the things that you really have to decide about. I think some of these are reasonably strong alterations in existing policies.

There was less tension than you would have thought over the Centers of Emphasis. And I think that was because after we developed the criteria, which everybody agreed to, when they applied the criteria they were so obvious, that I don't think anybody even whimpered about it. Some of them were disappointed, but nobody complained, because they agreed with the process in advance. So, that was an area of controversy that didn't happen. It really didn't.

One that is an obvious, constant, and existing tension from the faculty perspective, representing the medical staff, is what is it we are supposed to be. The original plan said that we were expected to get extramural federal research funding, while at the same time doing more clinical practice, so that we can enhance our practice plans to support our departments. And the obvious question was "well, which is it?" The first plan said both. It is impossible. It is humanly impossible to do both and be good at everything. So, we cried and pleaded and groveled and everything, to change that in the plan to "or" rather than "and." It was almost heartbreaking from the Promotion and Tenure Committee point of view, to sit and listen to the Vice Provost tell us "that young faculty have to be warned, not to engage in too much clinical practice." And then, their chairpersons had a strategic plan that said they must engage in more clinical practice. So, we have to decide which is it going to be. The University needs to recognize that both are equally valuable, but that you can't do everything. So, we put it in here, and we would like for you to think about it.

President Jennings:

Well, and I think that is what Ron was saying about the debate on the Faculty Senate issue, on the clinical professorial track that is there.
Mr. Teaford:

I think somebody needs to tell the Board members what a clinical faculty member is. In other words, you said on one basis that they don't have tenure, what are the other reasons that they aren't on tenure track?

President Jennings:

It is not on tenure track. Let me try and explain what that is -- and the great research institutions do this. This is a person who will be employed at the institution on a contractual basis with a relatively fixed salary, although there could be some additions depending on the income they bring in. But their responsibility will be patient care. There may be some teaching, there may be some research, but their primary responsibility will be patient care. They then will be evaluated on a five-year basis, with job security increasing at various levels on the basis of those evaluations. But they will not be evaluated on the basis of their teaching or their research activities. They would be evaluated on the basis of their clinical practice activity within the Hospitals.

Mr. Teaford:

Are they within the practice plan?

President Jennings:

They will be in a departmental practice plan, but they will be on a fixed salary.

Mrs. Bowser:

And how does tenure work with this?

President Jennings:

There won't be any tenure, but there will be job security.

Mrs. Bowser:

So, it is like Cooperative Extension.

President Jennings:

No. Cooperative Extension is tenure track. There are a variety of levels up there where the contracts get longer as you perform --

Dr. St. Pierre:

As you first come into it, you are evaluated yearly like everyone else. During the fourth year of your original employment you are given a thorough evaluation. The intent is will you be given a fifth year contract. If a fifth year contract comes up, then the sixth year becomes the first year of a five-year term appointment, renewable every five years.
Mr. Teaford:

So, you go from an annual appointment, to a five-year appointment.

President Jennings:

That is where the job security — the key thing is that the responsibility is clinical, rather than teaching and research.

Mrs. Bowser:

Well, that also has ramifications in the hospital because if you don't have doctors that are willing to take care of patients, then there are beds empty in the hospital.

Mr. Teaford:

In addition to the fixed salary, they are beneficiaries of the practice plan. They get paid within those plans, too. So, in other words there is a financial incentive as well.

President Jennings:

Oh, yes.

Mr. Barone:

Where does Ohio State stand? When you are talking tenure and teaching, where do we stand in the field of medical research? I don't really think that you are expounding on that. Being on the Research Foundation Board, you know, when the public gives us all this money — I don't hear enough, Ed. What are we doing in the field of medical research? You are talking about tenure, are these teachers — are they strictly taking care of patients, are they working like Dr. Salk did? Because that, to me, is very important. Should you find a cure, like Dr. Salk did, it changes your whole hospital foundation and your manner of managing that hospital. Especially a university hospital. Are any of our teachers doing any medical research? I don't seem to find out from anybody, at any time, where we stand on that position.

President Jennings:

One of the reasons this strategic plan is so important, is that at this stage we are not doing the amount of research one would expect out of a medical school the size of The Ohio State University. I don't think there is any question about that. At the same time, our rate of change is far exceeding virtually anybody in the country. The chart that Manny put up, showed a doubling of the research dollars — which in medicine is a good measure of the totality of the research that is being done. One of the reasons this plan today is so very important is because in order to get into the top ten, we are going to have to not only double that $30 million, but it probably is going to have to get into the $90 - $100 million range in today's dollars in
President Jennings: (contd)

terms of research grants. The twenty percent a year rate of change is what is the critical measure right now, because we are not a large research institution at this stage. But Ohio State is moving in that direction. And that is really what this plan is all about — it is about how we get there.

Hopkins is the largest research grant institution and 60% of the procedures done in the hospital at Hopkins are done by clinical faculty. Whereas, as you heard, the number that Manny was talking about, we have 65 clinical faculty out of 400, or about 15%. We must increase that clinical faculty substantially so that we can take a Hank Myerowitz, or take one of these young gunners who is going to develop that AIDS cure or that cancer cure, and support them while they do that. John, the basic answer is we are low today, but we are rapidly changing. That is what is causing the hospital so many problems. They have been accustomed to having a medical faculty over there that does nothing but clinical work. Last year our University Hospitals did 1000 heart procedures and 17 appendectomies. Every hospital director in the country will say you make your money off the appendectomies. But when Hank Myerowitz transplants a heart, or somebody else does a full bone marrow transplant, the money for the hospital is just zapped right out the window, because those things are costly. What we have to do is get through that period to become a research hospital.

Mr. Teaford:

I think it means we have got to do what Dr. Clausen said and put "or" in there. We have two distinct missions, both of which are absolutely essential to the future of the hospital.

President Jennings:

That is right. And that is what the intention is to put "or" in. But to put "or" in it, you have got to get the institution and the rest of the faculty — because everyone knows that is an important issue for an academic institution — as to what are the duties of a faculty member. The duties of a faculty member are teaching, research and service. What we are saying here is because of special circumstances, we are creating a faculty member whose duties are just service.

Mr. Barone:

I bring it out because it is also important. Mr. Immke gave $1 million to the University for cancer research, now the public, I believe —

Mr. Immke:

$2 million.
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Mr. Barone:

I think the impression they get is that Ohio State University is going to take these funds and do cancer research. I never hear anything -- I get the question asked of me, but nobody expounds on what our cancer research is and even if it is functioning. If I were Mr. Immke, I would wonder where my $2 million went to?

President Jennings:

That is of course why cancer showed up as number one up there.

Mrs. Bowser:

The second part of my question was a response from the Hospitals and I want to be sure we have time to hear that side, too.

Mr. Nichols:

Let me give, what I would call, three areas where some people are going to have concerns or disagreements. They are broad based so they don't focus in on any one of them, but that they encompass multiple ones of the particular strategies. Number one is communications, advertising, PR, we have to become more active in terms of publicizing ourselves to attract patients and attract physicians. We started that process recently with two programs: 1) MedOhio advertising -- which has been print advertising and radio advertising; and 2) we have also done it with the Ask-A-Nurse program, which has been primarily with print advertising, but it is going to start some T.V. in about two to three weeks. Which is the first time it will be in T.V. advertising.

There is not complete agreement among the medical faculty on these issues. There is not complete agreement within the Hospitals personnel with these issues. And I know there is not complete agreement within the community. I had some letters of complaint that have come to me. The past president of the Medical Academy of Central Ohio was extremely displeased with some of our advertising and had some very nasty things to say about it. These are our first two test runs. We have made some improvements in that area. But clearly where we are going to increase ourselves -- we are not going to be a Riverside, as I mentioned before. Absolutely, we must begin to publicize our areas of emphasis, to increase our competitive stature, to attract additional physicians to the network. That is number one.

The second issue is our outreach programs. There is no question that there is controversy involved with outreach. If we look at a Riverside, well they have a few physicians in an office building there next to the hospital, but their basic physician feeder group is all over the community. Our basic feeder physician group is right in OSU Hospitals and Clinics. We don't have that impact out in the community. We need to get the feeders, the feeding of patients coming in from the physicians of Central Ohio and from other hospitals. To do that means becoming active in several ways. MedOhio is an example of
Mr. Nichols: (contd)

that. As you all know, that was not warmly received by everyone — our acquisition of MedOhio and our involvement in that program. Not everyone is pleased that we are involved in SkyMed. Not everyone is pleased that we are involved with the Stoneridge. Other types of affiliations that we are talking about with physician practice groups in the community, with individual physicians, with hospitals and clinics throughout Central and Southeastern Ohio, are all areas that are going to cause controversy of one type or another. There are going to be people that feel we are going strictly into the private area. This is not unlike the discussion you've heard about areas like bookstores and other such activities.

Thirdly, you are going to hear some dissatisfaction from the employees. Some degree — some of you have already heard, I know. In the process of becoming more efficient, in the process of structuring ourselves to be more competitive, in the process of setting up a more business-like structure at the Hospitals, in terms of how we operate from a service delivery point of view, requires a number of things. A key one, for example, is that we are not going to be able to have as many employees at the Hospitals as we have had in the past. And that is an area some of you have already heard about. We have had complaints from the nursing staff, we have had complaints from support staff, and I think we can expect that, to some degree, those will continue. I believe that if we properly do it, we will be able to mitigate most of that. But we are not cutting down below what other hospitals are, we are not even down as far as many of them. But as we look at teaching and research hospitals and as we look at community hospitals, we are clearly much higher. And I guess the only way to say it is that our employees are used to having more people around. So, as we become competitive we have to have fewer people around, and those who remain have to be more efficient. So, I think, we can expect that will be a third area where there is not complete agreement, but also we will be hearing some complaints regarding that. Those are the three that I would mention at a broad base.

Mrs. Bowser:

Thank you. Charles, you can't go through the meeting and not comment.

Mr. Lazarus:

I would like to comment that I think it is terribly important that we all realize that the Hospitals is here to support the program in the College of Medicine. That is its basic function. And if the Hospitals is doing some things that are inconsistent with the goals of some of the individual members in the College of Medicine and some of their ideas, it is only to further the strategic plans and programs in the College. We have to go out and find ways to provide more patients in the Hospitals, to raise more money through a clinical faculty to support the research that is in the College of Medicine. I
November 3, 1988 Joint Meeting, Board of Trustees and University Hospitals Board

Mr. Lazarus: (contd)

think the College of Medicine and the Hospitals have done a superb job of integrating the direction they are going. When we talked two or three years ago and said this was the kind of direction we needed. I think that they have achieved it and done a great job in doing it.

Hospitals Board Member:

Mr. Chairman, I would just like to concur with what Mr. Lazarus said, and on behalf of the Hospitals Board, we certainly appreciate the opportunity to present this plan to you. Personally, I think that we need some form of consensus, if not, a direct ratification of this strategic plan, so that gives us some direction -- are we going in the right direction, are we doing the right thing. If we are not, if you want us to alter our course, tell us which direction you would like us to go, and from there we will proceed.

Mr. Immke:

I think I can assure you that we will meet on it very quickly and you will hear back from us very shortly.

Mr. Teaford:

You are going to get an absolute nay or yea response, we are not going to take it under advisement forever.

Mr. Immke:

Jim --

Mr. Nichols:

Mr. Immke, I sense you are going to close here fairly quickly, and one other person is going to be joining us for dinner who has been in the room and who has been involved in the plan. I wanted to at least introduce him to you. John Gottillion is in the back of the room. Stand up, John. He is on the senior management team at the Hospitals; he is the administrator for marketing and communications and has had a very active part to play involving the plan. He will join us for dinner this evening, but I wanted you to meet him.

Mr. Kessler:

Mr. Chairman, would it be appropriate to have a motion now on this plan? Or do you prefer to --

Mr. Immke:

I think we should have some discussion on it, but I think we can do that relatively quickly -- in December.

250
Mr. Kessler:

The thing I would say, speaking for the Board, we want to compliment and thank you all on the Hospitals Board for the tremendous amount of time and energy that you are devoting for the Hospitals. I think the community appreciates it and I know we as a Board do.

Mr. Immke:

We thank you all for the presentation and the capsulizing of your strategic plan. I can assure we won't dilly-dally about it. Any other questions or comments?

Mr. Teaford:

I think, too, it is a model for the rest of the University. And I am happy to hear that they are doing it.

Mr. Immke:

We will now recess for dinner, which will be served in the Insurance Room which is all the way down the hall and to your right. The Board of Trustees regular meeting will convene with the committee meetings at 8:30 in the morning and the regular meeting at 10:00.

Attest:

Madison H. Scott    Leonard J. Immke
Secretary            Chairman
Page 252 is blank
The Board of Trustees met at its regular monthly meeting on Friday, November 4, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

Minutes of the last meeting were approved.
November 4, 1988 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on November 4, 1988, at 11:00 a.m. He requested the Secretary to call the roll.


Ms. Casto:

Thank you, Mr. Chairman. I would like to call on Mr. Ihrig who has some statistics for us about our freshmen.

Mr. Ihrig:

Thank you, Madam Chair. Under the orange tab, Special Reports, are the official enrollment reports for the Autumn Quarter 1988, prepared by the Office of the Registrar. The first three pages are of written materials and explanations and I will start on the forth page of that document which is Table I, "Total Enrollment by Campus."

The overall enrollment for the University for Autumn Quarter 1988 is 59,547 students. The head count was 53,669 on the Columbus Campus. It is interesting, the Columbus Campus is up about 1%, and there is an even higher percentage of increase on each of the Regional Campuses this year. The most significant one is at Wooster, with a 26% increase. That campus had a significant decrease in enrollment about four to five years ago. The faculty on that campus have gathered together and reevaluated what they were doing, worked very hard on their programs and recruited students throughout the state. This is a direct effort on their behalf to turn that enrollment situation around. There is a significant increase and it looks like it will continue into the next year.

The enrollment increases at the Regional Campuses -- they are up about 8%, with Newark the highest at 14% -- are consistent throughout the State with what has been happening with the Technical Colleges and the other Regional Campuses around the State. The community colleges' growth around the State are just about the same level as the University's -- it is under 2%. But the Technical Colleges and the Regional Campuses are the ones where the real growth is showing right now throughout the State of Ohio.

Table 2 tends to show where the students have come in, how many are returning students or new freshmen. At the top of that table under the Undergrad, NFQF means "new first quarter freshmen." That is our inside terminology to identify a new first quarter freshmen from one that is still a freshman after being here several quarters. These are the entering freshman class for the Autumn Quarter. They are up almost 800 from last year, 784.

At this point, I would like to digress a little bit and give some background on the overall process. The team work that is involved to bring these enrollments together and getting the students into the University is significant. It starts off really with the contacts the students have with University faculty and staff way before their
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

preparing to go to college. Those contacts and the impressions of the University are very important. Then, the Admissions Department, headed by Jim Mager -- and Jim is in the audience here -- and Jim's office, Admissions, is a part of the area of Student Affairs that Russ Spillman heads under the Provost, Myles Brand.

Mr. Kessler:

Could Jim wave his hand so we could see him?

Mr. Ihrig:

Jim, you want to stand a minute? That is Jim Mager, Director of Admissions. He is another engineer who found the light of day. The Admissions Office makes that early contact and involvement with the students. Then there is the registration area where the students get involved with quarterly registration at the University and that is Gene Schuster's area. Gene is unavailable today, but John Dickhaut from the office is here in case there are questions. Those two offices make the initial contact with the students and get them registered and coordinate with the faculty to get the students scheduled in the classes.

Then we get into the real life of the University, and that is paying tuitions. That is where the Treasurer's Office gets involved with the Fees and Deposits Office. A gentleman by the name of Leonard Copeland, who works under Jim Nichols, handles the fees and deposits. And Leonard isn't here today, he is working collecting fees. This is the week they are making the refunds for the students who overpaid. In addition, the Treasurer's Office has Student Aid Accounting which gives out the aid checks to the students. Again, under Russ Spillman's office, headed by Mary Haldane, Student Financial Aid makes the aid awards, and, to provide adequate checks and balances, the Treasurer's Office actually gives out the award checks. So those offices all work together and have to be really tied together in their coordination with people, as well as with their computer systems to make all of this work.

Now, where does the Finance Office come into all of this? Why am I talking about enrollments? Well, we get in on both the very front end and the very tail end of this process, because right now our people are summarizing the data on all of these enrollments. The Board of Regents requires us, as of the 14th day of the Autumn Quarter, to give them a count of tuitions that are actually paid. That is the closing date. That is like the last day of the fiscal year in financial terms. But that is the day they take the count, on which we get our instructional subsidy. So all of these data that you have here are based upon those 14th day enrollments as the official count. Our people take those raw data from the Registrar's Office, the numbers of students by classes they are taking, and put that together for the Board of Regents. We are finishing that up now, so that by December's Board of Regents' meeting we can find the exact dollar amount we will have in instructional subsidies for the University this year.
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

At the same time we have to take all these data and the same people in our office run projections using the actual retention of students and the student enrollments to project out what next year's class sizes will be. That sets the basis for budgeting for next year, as well as the overall planning of enrollment targets, especially for the entering freshmen, so we can remain in the 40,000 enrollment limitation on FTE basis. We will get into that a little more later.

Now after having dealt with enrollment — I hate to admit it now for about twenty years — and trying to project where they will come out, I will admit to you at this point in time, betting on us coming out on the exact numbers of enrollments are lower odds than playing the Ohio lottery. It is an impossible situation. We give you very good explanations, which came to light as I was reviewing some of our past explanations in preparation for this report. We are very good at explaining what happened, but we are very bad at anticipating what the students will do. They are always surprising us every year. And it is not the totals. We come in very close when we do our totals. The real problem is the mix. That is estimating the retention of undergraduates becoming upper division undergraduates, versus the freshmen coming in and what the graduate students will do. So you might keep that in mind as we go through these numbers and give you, again, our 1988 version of the explanation of the differences between what happened.

Now first place is that entering freshmen are up about just under 800 over what they were last year. And that is just about 600 freshmen above what we projected for our target this year. We originally had targeted 6,500; they are up about 7,100. What has happened here is that since 1981 or 1982 the yield rate from the students that are admitted as freshmen has been dropping each year. So, obviously, we predicted that it would drop again this year. Well, this is the year in which it turned around and the yield rate went up again. It cost us about 3 percentage points over where we thought they would be. When Jim Mager in the Admissions Office learned this and saw this happening with the data, we got early alert on it, we could not unadmit students that we had already admitted. We had to make very certain that all the rest of the deadlines through orientation and everything else were really held to. This was a rough time for the Admissions Office and the orientation people. In addition, we worked on transfers of the freshmen and sophomore levels to reduce them. We held the deadlines on those admissions to counteract the numbers of freshmen coming in. At the same time, students who had been enrolled previously and stopped out for a quarter or two or a year, and wanted to come back at the freshman and sophomore level, if they missed the deadlines, they were told they were early for the Winter Quarter. So, we made a lot of adjustments. When we look across the table of what has happened at the undergraduate classes, it is fairly close in grand total, it is just the mix within it that is creating the problem for us and creating a bulge in the freshman class and those courses throughout the University that the Provost, along with the colleges are trying to deal with this year.

The other interesting aspects relate to the retention rates. The continuing students — we have had a jump in retention rates this year. Comparing the freshmen from last Autumn Quarter to this year,
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

a year ago that one-year retention was 79.5%, it is up to 82.5% this year. That is a significant jump. That will have long-term impact as we continue the enrollment, because those students are here for an average of around 4 to 5 to 6 years. So that impact will be on the system a long time. That is why we are very concerned when we have an increase like this. It is not a one-year phenomenon, we live with it for the whole period of the undergraduate experience.

Now, to add more interest, the undergraduate students are taking fewer courses overall. The credit load -- the average credit load by the undergraduate students are down. At the freshman level they have maintained constant at about an average of 15.1 hours, in average credit hours per student. But we have had a drop of 13.93 down to 13.87 overall for the total undergraduate class. And those, with the large numbers we have, result in significant class load reductions. Some of that is, and we haven't fully analyzed this, as we have higher retentions and there are more students in the upper divisions, the lowering of the number of credit hours on the average is happening at the junior and senior levels. But there are fewer numbers of those students, so we don't have that data fully analyzed yet. The freshmen, the rank one students, are holding steady in the number of credit hours they are taking, and the sophomores are dropping a little bit. But the biggest reductions are happening at the junior and senior levels. We are still trying to understand what all that means.

In moving to the graduate students, their enrollments are up by about 5% this year. This is about 1.5% higher than we projected. And the retentions on graduate students were higher, as were the graduate admissions. But when you look at the graduate admissions there is something that is interesting also, and that is that the graduate admissions from other universities were down this year by about 4.5%, while the graduate admissions of our own undergraduates who have received bachelor degrees from Ohio State are up about 23%. That raises some interesting questions, also. I don't yet have a clear explanation of what is happening here and that is why I will quickly turn to Myles, if there are questions. The professional students are holding relatively constant and there is not a significant change.

Now that brings us on to the Columbus Campus to the infamous over-enrollment figures. The Board of Regents says that on a FTE basis -- this is not a head count, these numbers we have been talking about are on a head count. FTE means -- the simplified version of it is taking the total number of credit hours that students enroll in and dividing by fifteen -- that is considered an average load -- and you get the number of FTE -- "full-time equivalent" students. The Board of Regents say on the Columbus Campus, with certain exclusions, that Ohio State should be no higher than 40,000 FTE. And we have exceeded that the last several years. With these higher enrollments overall, I am pleased to report that our over enrollment has decreased -- from 598 last year to 218, was the number I was given yesterday getting ready to report to the Regents. Now, how can this be? It is the credit hour load. And another significant reduction in credit hour loads were in the graduate students. While the graduate students were up the credit hour loads were down, and I think that is a direct impact on what has happened with the tax situation, of taxing their
stipends, that went into effect in January of this year. So the graduate students were taking a lower number of class loads so that their tuitions would be lower, so that their federal income tax rates would be lower. Now that that has been adjusted as of the October payroll, we will probably see a change in this Winter Quarter back to normal levels of credit hours. That is another uncertainty that we have in projecting for next year.

You may have read in the paper where the Board of Regents at their meeting in October passed a 1,000 FTE increase for certain universities in Ohio, that had this limitation on enrollments. We have 40,000 and the Regents are passing a rule that says we could go to 41,000. That will not change the 40,000 enrollment limit that we are targeting for at Ohio State. We have to be able to serve the students we have here, and we will not adjust our enrollment limit upward on this campus to 41,000. What the 1000 will do though is provide a buffer. In other words, the feasibility of us hitting exactly 40,000 is very slim. So if we err on the side of being over 218, as we are this year, that means that there would be no penalty or reduction of instrucrional subsidy. Now that is the good news. So that give us the buffer that we have been looking for. The bad news is that that is not intended to go into effect (that is the fine print) until next biennium, because the Regents already had their budget in place. Now if they had some extra revenues -- if all of the other universities and two year colleges don't claim all of their revenues, we may get some of that adjustment this year, but we can't count on it. And the over enrollment reduction in our subsidy last year was a $1.5 million. The year before it was $1.8 million. So that does have a significant impact on the instructional subsidy.

As a result of the Autumn Quarter emphasis on students wanting to come to Ohio State, that has spilled over impacting the Regional Campuses, but also onto Winter Quarter. On October 14 it was the first time in the history of the University that freshman admissions to the Columbus Campus were closed for the Winter Quarter. And at that time we had enough applications to have exactly the same number of new freshmen enrolled in the Winter Quarter -- 780, as last Winter. And with the increase in students on the Autumn Quarter campus and our ability to service those students and provide the types of educational experience that they look for in coming to Ohio State, we decided that we could not keep Winter Quarter admissions open. So the Columbus Campus freshman admissions for Winter Quarter and transfer students were closed on the 14th of October. So there is a significant interaction among what is happening among these various quarters.

Also, on the Regional Campuses it is interesting to note that their retention of continuing undergraduate and transferred admissions show the highest increases, but there is a slight decline in the entering freshmen on the Regional Campuses. That is an interesting phenomenon. They are retaining their students longer and doing more with their students on those campuses and getting transfers, but their new freshmen are down. And I don't know yet how to project that one in the trends either, but that is another interesting piece of data.
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

So those are the overall issues with regard to enrollment on the various campuses that we are dealing with. And we will be, in the next month, here, working to put this all together and come up with our targets and what the impact is for next year so the people in Admissions know what they are dealing with as far as admissions for next year. I think this second year of selective admissions for the Autumn Quarter has just increased the complexity of knowing what to do in the admissions process. So we are going to have some more years of shaking this out, and having to work with it.

The next table in your book, Table 3, starts showing the enrollments, compared to last Autumn Quarter, by college. You will see that under Arts and Sciences, in the unknown category -- that is students who have not declared a major -- dropped by about 38%. And the biggest area of pick up there was the College of the Humanities at 20%. The other significant changes, which I would say are in the double digit area, are Continuing Education which is down by about 24%; I think this is a direct result of our announcing the closing of admissions at Ohio State. I don't have a clear indication of why that is down, because our enrollments after 5:00 p.m. are up, which usually increases Continuing Education enrollments. But it appears that the people who are enrolling after 5:00 p.m. are in actual degree granting programs. Education is down, also, but that is a planned enrollment adjustment in that College of limiting the number of students going into education. And the same thing on Nursing -- which is down 13%.

The next table is a little more interesting, in that it shows -- the enrollment by curriculum. It takes the students that are in University College and spreads those numbers by the basis of the college they would select, in addition to the actual college enrollments. So it is curriculum of study. And it shows that in addition to the ones that I have mentioned, that there is a significant increase in interest in Home Economics and Pharmacy. But also, if you look at the pre-professional criteria, those interested in pre-dentistry, pre-medicine, and pre-optometry all show declines. Students who are interested in going into veterinary medicine, shows the only increase in the pre-professional curriculum. The one with pre-medicine relates to what Dean Tzagournis showed the Board and the Hospitals Board last evening.

Mrs. Bowser:

Are Dentistry and Vet Medicine also planned, besides Nursing and Medicine, to have a decrease in enrollment?

President Jennings:

Dentistry yes. Dentistry is -- that deserves a little bit of explanation. Basically, if you recall what Manny was saying about the number of applicants in Medicine, the same thing is applying in Dentistry. Dentistry, right now, their applicant to slot ratio is about one to one. So that they will take whatever qualified applicant they get. They get more applicants, but they will only take the qualified applicants. So it will fluctuate a bit on the basis of qualified applicants.
November 4, 1988 meeting, Board of Trustees

Mrs. Bowser:

How about Vet Medicine?

President Jennings:

Vet Medicine, no.

Mrs. Bowser:

I just wondered, we knew about Medicine and Nursing. Excuse me.

Mr. Ihrig:

No, that is fine. The next two tables -- 5 and 6 -- gives you everything you wanted to know about credit hours and FTE's. You see the FTE data shows 47,343, and I just mentioned that we were around 40,000 at our figure. The difference is that the Board of Regents allows certain exemptions from the enrollment limit and those are the programs in Agriculture, Dentistry, Medicine, Optometry, Veterinary Medicine, and Nursing, study a broad courses, and students enrolled at 5:00 p.m. or after as commuter students. So we take all those adjustments out and that is how we bring that 47,000 down to the 40,218, that I mentioned previously.

Table 7 then shows the source where the student's home county, states, or countries are. And that shows that 86% of the students at Ohio State are from Ohio, with 9% from other U.S. states and territories, and 4.7% are from foreign countries.

Mr. Teaford:

It also shows they are from the 88 counties.

Mr. Ihrig:

Yes, it does.

President Jennings:

Absolutely.

Mr. Ihrig:

And of the counties, Franklin County has 26% of the students. Cuyahoga is second with 6.6% and Licking, Hamilton, and Montgomery Counties have just under 3% each.

Table 8 then shows the countries with the largest enrollment of students. You see the Republic of China has the largest numbers with 473, and it appears that the countries on the Asian rim have the largest representation of foreign students.

Table 9 shows the areas of studies by those students from foreign countries and engineering leads at both the undergraduate and graduate level.
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

Table 10 is a summary of the students numbers, by enrollment, by ethnic categories, on each of the campuses. That will show that we have increased the black students and both Tables 10 and 11 are different summaries of that. Table 11 shows total University and Table 10 shows by the various campuses. The number of black students for the total University in new first quarter freshmen has increased by 17%, from 412 last year to 482. The overall black enrollments at Ohio State have gone up about 5.7% or 2,569. This table summarizes the various categories of both ethnic categories of the students.

Those are the summary data of the enrollments. I would be glad to try and respond to any further questions that you might have.

Mr. Berry:

Weldon, you set a goal for 6,500 new freshmen. How many do you accept to obtain that goal? You have, I assume, a drop out rate --

Mr. Ihrig:

That is correct. We admitted this Autumn Quarter 15,593 students.

Mr. Berry:

So you accepted 15,000 and you ended up with 7,000.

Mr. Ihrig:

That is right. That was a 45.5% yield rate.

Mr. Berry:

So, I can assume that you based your acceptances on past drop adjustments.

Mr. Ihrig:

That is right. There were actually just under 20,000 applications received for the Autumn Quarter.

Mr. Berry:

So, if you received 20,000 and you accepted 15,000, you accepted 3/4 of the applications. O.K. My other question is don't you have a requirement for credit hours that the students are required to take?

Mr. Ihrig:

The number of credit hours that the students are required to take for a degree, not on a per quarter basis.

Mr. Berry:

So, in other words, for a freshman it is up to them how many credit hours -- there is no --
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig:

We have advisors, and I can let Myles talk about this, but there are advisors and counselors and faculty members that work with the students to advise them on what they should take to make normal progress. But it is still, in the final sense, the students choice. Now there are some limitations on that. Certain programs, if they are going to make standard progress, will require a certain number of courses to be taken in each quarter. And also, certain students who want to compete in intercollegiate athletics have to maintain a certain level of credit hours to meet their eligibility.

Mr. Teaford:

I know grad students have to do three quarters in a row of a certain number of credit hours — my wife does, I know that.

Mrs. Bowser:

What John is saying is that in the old days you had to take so many hours each quarter so that at the end of three quarters you would be ending your freshman year. How many hours are required to go into your sophomore year? Forty-five, Myles?

Dr. Brand:

That is approximately right, a little higher maybe.

Mrs. Bowser:

Fifteen hours a quarter is kind of a basic rule.

Dr. Brand:

That is correct.

President Jennings:

You are talking about roughly, depending on the degree, 192 to 215 or there about as the boundaries on an undergraduate degree. But the phenomenon you are seeing today is students taking fewer credit hours on an average in any one quarter.

Mrs. Bowser:

You could have more bodies, but less hours.

President Jennings:

Yes. But that is what we are talking about, John, is that the typical Ohio State student, and I might add the typical college student today across the country, takes five to five 1/2 years to graduate from undergraduate school. Where, I realize, in our day we sat down and took fifteen hours every quarter and there wasn't any say in it. That is typical across the country.

Mr. Berry:

Public and private?
November 4, 1988 meeting, Board of Trustees

President Jennings:

Public and private, the typical undergraduate student takes five to five 1/2 years of school.

Mr. Berry:

That is a hard thing for me to digest.

President Jennings:

It is for me, too.

Mr. Berry:

Most kids that are acquaintances of mine -- I don't have children recently in school or anything, but I don't know hardly any of them who didn't graduate in four years for undergraduate studies. I'm like Shirley, a couple of years ago when I went to school, as I recall, your freshman year you had to take certain courses and you had certain electives and you had a certain number of hours. I don't recall that you had that choice. I guess that is too far back in history.

Mr. Teaford:

I think the biggest difference from when I was in school until now is the fact that the men could not drop out or we would find ourselves in the army. So that tended to keep the men in school and going straight through.

President Jennings:

Well, there is another thing, too, and Joel, I think there is something to that. That is, first of all you stayed in school because of the draft, but I think also because of the draft, when we were young people we really didn't have to start to think about starting our career in earnest until we were twenty-four or twenty-five. Depending on when we went into the military, we were at least twenty-four, twenty-five before we started thinking seriously about our careers. These young people when they graduate from college they don't have that draft. And I am not suggesting that we put the draft back, but they are twenty-two. I know they don't realize that, but I think that is still pretty young to be starting a career.

Mrs. Bowser:

Are there other reasons for that though -- are there other reasons that they don't take as many? Are the courses harder? Is it more expensive, financially?

Dr. Brand:

That is one issue. We have a lot more students working part-time. Also, it has become socially acceptable and healthy, I might add, to occasional stop out and assess where you are in your career. So we find a lot of that. We find more acceptance of that amongst students, their peers, and to some extent, not entirely, John,
November 4, 1988 meeting, Board of Trustees

Dr. Brand: (contd)

amongst the people who have been around for awhile to be stopping out, reassessing where you are, looking at your major, and then moving forward again. And that is why when Weldon points to juniors and seniors taking smaller number of courses, some of it is work related, and some of it is a financial issue.

Mr. Berry:

I can see the work related part of it.

Mr. Teaford:

But I think it works on the other hand, too. That there are more parents who can afford to spend for five years. In other words, it works for people who need to work to get through, and also at the other end the families that can afford to foot another year.

President Jennings:

Keep in mind, that the publics adjusted for inflation are not all that different from when we were in school. The other thing, I think, too, Myles, is that tendency to experiment more — to take courses that won't necessarily apply towards a degree, but a course that a student might be interested in. And I applaud that. I absolutely applaud that. I frankly don't think there is any hurry to graduate from college. I think this is a good trend, because if they are taking more courses, experimenting more, they get a broader education.

Mr. Berry:

Are you advocating to have more professional students?

President Jennings:

No. I think the opportunity for these people to experiment with different courses, different activities, is a good trend.

Mr. Immke:

How about you kids back there, what are you doing and why?

Mr. Jon F. Keller:

Well, this is how I've feel, I think that five and five 1/2 years is pushing it a little. But I think that the average college student probably graduates from this University in fours years and a quarter or two quarters. When I came here I was in international business and I had no idea that I would want to be in public relations. I am going to graduate next fall, so I am one quarter behind. But I had a quarter, like the man said, to experiment, to see what I wanted to do. When you're eighteen years old you don't have any idea of what you want to do; you can't see the light at the end of the tunnel, there is no direction. I think it is better than an hourly requirement. I think to be full-time you have to take eleven or twelve hours, I think that is fine right there. When you have to
November 4, 1988 meeting, Board of Trustees

Mr. Keller: (contd)

work to get yourself through school, you can't really afford to do more than that and keep up your grades.

Ms. Laura Schultz:

Now I disagree with him. It is going to take me five to five 1/2 years and I do work and I do go to night school. So it is going to take me a little more time to get through.

Mr. Berry:

Because this is work related, right?

Ms. Schultz:

Right.

President Jennings:

The five to five 1/2 is the average, it doesn't necessarily mean you are going to do it in five years, but it is an average.

Ms. Melissa Allison:

It depends what you are majoring in. If you are majoring in English and your classes are worth five credit hours, it might be the same amount of work as a Journalism class or an Architecture class which is worth only worth 3 or 4 credit hours.

Mr. Jeffrey A. Thornhill:

I took two years off after high school before I started at Ohio State. I played around for two years. I think Dr. Jennings said "experimenting with different classes," I have had three or four different majors deciding where I wanted to go. I have an agricultural background, but in that area there is just nothing there. In my county it just isn't there. I finally settled on a major, it took me two years to do that.

Mrs. Bowser:

Fred, you need to talk to him. Well that is interesting.

President Jennings:

The other thing that I think is important to recognize, too, is that I think these reports, it is going to get more complicated and more difficult to hit these enrollment targets, because of selective missions. With the new admissions policy, we don't have good information on what the yields are right now. It is going to change a lot.

Mr. Teaford:

I want to ask one more question about those numbers. You said that the number of freshmen was up 19%. Do I extrapolate from that that the retention among black students is down?
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig:

No. Myles, do you have the numbers on that?

Dr. Brand:

Down slightly, not a lot.

Mr. Teaford:

We don't have that one licked yet.

President Jennings:

The total increase in all blacks is 139 or a 5.7% increase. There is a slight decline in the undergraduate retention, but a slight increase in the graduate retention. So in the end, that retention is about even. The key thing, and of course, your retention is going to take a longer time to grab hold. We are doing a lot of that on the affirmative action activity. The key thing that we should all be pleased with is that 17% increase in the freshmen. The key is to keep them here through the period of time. And that is well above the goals of the action plan that was set last year of 440 new first quarter freshmen. As you can see, it is 482 new freshmen.

Mr. Ihrig:

I need to interject. As all these numbers, you have to get into them a little bit, because the continuing students in the other categories also can be a reaction of the increasing black students graduating. There is data that you don't have. In looking at our retention data we just got -- remember that I mentioned the freshman classes after one year had increased from 79% to 82%, there was a similar increase in the retention of black freshmen the second year. So what is happening is an increase. You have to take into account the graduation rate, as well as the retention of the students staying on.

Mr. Berry:

I was just going to ask, is there any way we can really evaluate our action plan that we put in a year or so ago yet.

President Jennings:

We can't evaluate the totality, but we do have annual goals. And that is what I said, that this had an annual goal of 440 new first quarter freshmen, and as you see we got 482.

Mr. Berry:

What I am thinking about is going down to a sixth grader.

President Jennings:

No. We have got those youngsters in, but that is a much longer term. You do have annual steps along the way in terms of evaluating that action.
November 4, 1988 meeting, Board of Trustees

Mr. Ihrig:

Thank you.  

Mr. Immke:

Dr. Brand:  

Mr. Immke:

Dr. Brand --

Dr. Brand:

Thank you, Mr. Chairman. It is my privilege to introduce C. William Kern. Bill was born in Middletown, Ohio. Upon completion of his high school education in that area, he entered Carnegie Institute of Technology, now Carnegie-Mellon University, and received his bachelor of science degree in chemistry. He then went on to earn a Ph.D. in theoretical chemistry from the University of Minnesota.

Significant portions of Bill's Ph.D. research was conducted at Harvard University. From 1961 - 1963, he was a postdoctoral fellow in the Department of Chemistry at the IBM Watson Laboratory at Columbia University. Following a brief faculty appointment at the State University of New York at Stoney Brook, Bill joined the staff of Battelle Memorial Institute and concurrently had a faculty appointment at The Ohio State University. Where, over time, he became Corporate Director of Sponsored Programs and Professor of Chemistry. Bill left those positions and joined the National Science Foundation in 1978, and served both in the Division of Chemistry as Acting Director and the Division of Computer Sciences as Project Director for National Network. Before returning to The Ohio State University, he was appointed Assistant Director for General Sciences in the President's Executive Office of Science and Technology Policy.

Presently, Bill is the Dean of the College of Mathematical and Physical Sciences, a position he assumed in 1986. Bill is the author of sixty-five refereed papers on various aspects of theoretical and physical chemistry, chemical physics, and computer networking. He is a member of the American Chemical Society and the American Physical Society. He has served as associate editor of the Chemical Physics Letters. Bill has been playing a major role in the leadership of one of our most important colleges -- the College of Mathematical and Physical Sciences. He has been particularly influential in the planning of that College and the strategic planning that the College is undertaking right now, and is now leading the way on Campus in that direction. I thought it would be helpful for the Board to have an update on the progress we are making in the College of Mathematical and Physical Sciences. Bill, if you will please --

Dr. C. William Kern:

Good morning, it is a pleasure to be with you. Thank you, Myles. I am going to use this view graph machine to show you a few transparencies as I tell you about the College. I will try to respect the three rules of public speaking: be honest, be brief, be seated.

There are many definitions of our College -- I have a number of them here that I will go through with you. There are the five colleges in
Dr. Kern: (contd)

the Arts and Sciences confederation. In Math and Physical Sciences, we have seven departments that include chemistry, physics, math, astronomy, statistics, geodetic science and surveying (which is very close to engineering), and also geology and mineralogy. One way to think about our faculty is that they have very basic tools which can be applied to a lot of other activities that are relevant to the academic mission. And I have listed on this view graph twelve of them that we are currently involved in — all the way from the biotechnology center to delivering consulting through statistics. The Byrd Polar Research Center has been on campus now for over twenty years — Geology is heavily involved in that. The Cancer Institute is new — chemistry and statistics get involved in that activity. The Instrumentation center is a shared facility which is directed by Alan Marshall, Professor of chemistry and biochemistry. The telescope project you know about. The math placement testing, I will come back to in a moment, because I think that it gets us into a much larger critical issue for the '90's. The Mapping Center is relatively new; Materials Research Laboratory you know about; the Supercomputer Center, of course; the Geological Museum; and the Perkins Observatory we share with Ohio Wesleyan University. So one picture of our activity is that we have a lot of basic tools that can be applied to many cross-disciplinary areas across the University.

Another way to think about our impact and our centrality to the mission of the University, is given on this view graph where I have listed across the top our various departments from astronomy to statistics, and the sixteen other colleges down this row. The "x's" here indicate very strong interaction of these colleges with our various departmental faculty members and their expertise. You will see, for example, that statistics interacts very strongly with almost everything, as you might expect — statistics being a guide to the unknown. Social and Behavioral Sciences has a very strong interaction with most of our departments, largely through the atmospheric sciences program and geography. Engineering, of course has a very strong overlap in their college, as does the College of Biological Sciences. If you count the "x's" as opposed to the "O's", it turns out to be about 55% "x's." In other words, our college has a very dominant role in terms of the expertise that we provide not only for research but also for instruction.

To give you some idea of our teaching mission, I indicated here along the ordinate the numbers of students, and again across the abscissa here, our various departments. There are three types of students; undergraduate students, graduate students, and undergraduate majors in various departments. The most important thing about this view graph is that this is a log scale, so every time you go up a tick here, you add an order of magnitude. So you see, for example, that the Math Department in terms of its instruction has contact with about 50,000 students on campus. Almost everybody, in fact. And you'll see that chemistry, physics, and statistics are big players — astronomy down here is something like 4,000; geology is also large. So we have a very massive teaching mission for the undergraduate student body. Our undergraduate majors are smaller in number, just about the same as our number of graduate students. The undergraduate teaching mission is really a very critical part of our activity.
Dr. Kern: (contd)

Let me talk a couple of minutes about the faculty. Here I have indicated faculty by rank in various departments. There are about 250 of us all together. The cross-hatches indicate the various levels by faculty rank. We are approximately 80% tenured, about 20% instructors and assistant professors. Instructors are in math to help in the undergraduate instruction. They have 3-year, untenured, term appointments. Looking ahead, we do not presently anticipate major quantitative growth in these numbers. What we are most concerned about is the qualitative growth; that is the main emphasis of our thinking, longer term.

We have been extremely fortunate in the last few years in really accelerating through a number of special programs our senior leadership in the College. On this view graph I have listed twelve of our senior faculty: Dr. Wilson who arrived on campus in August; the eminent scholars, we have five that have been funded through the College, the most recent one being for molecular structure in chemistry. We heard about water quality this morning. Hydrology is a very key part of that for the University, Frank Schwartz is on hand; the University Professorship Program that Professor Brand, the Provost, runs through his office; and some other designated professorships, two of which are vacant at the present time.

Now, perhaps I could say just a few words about long-range planning and what the significance of this list might be for our national and international reputation. You have already heard about long-range planning this morning from Dr. Moser, and I understand that you had a briefing yesterday from the College of Medicine and the Hospitals. Perhaps you have seen this view graph -- this gives the essence of what we try to do in the planning process. We try to make a frank assessment of where we are, and then we try to have some very clear vision of where we are going. The difference between the left hand column and the right hand column is called the performance gap by the planners. It is that gap that we are trying to analyze to understand what the key parameters are for getting from the left hand side to the right hand side. Being a quantitative college, I can tell you that we have masses of data, we are very high on data. I will try not to present any more data this morning, however, but to talk with you a little bit about the qualitative measures.

One of the questions we're wrangling with here, department by department, and across the college, is just where we want to be and where we are in terms of our competition. To do that we need to assess whether we are in the top five, or top ten, or top twenty. Just how we can determine that? What changes do we need to make in order to do even better? That is a non-trivial exercise, because there are so many factors that we can call upon. At times it becomes confusing, what is really dominant and on the critical path and what is a consequence, what's cause and what's effect. Let me just indicate generally what some of these measures are and how one might go about thinking about a department. I am in a rather special position, myself, in that my research interests sit at the intersection of three of our departments -- math, physics, and chemistry. My research concerns the question of when a big molecule actually becomes a solid, that transition between a supermolecule state and the solid state. And to analyze those kinds of problems
November 4, 1988 meeting, Board of Trustees

Dr. Kern: (contd)

we use techniques from applied mathematics and computing. One can see that depending on the field, you assess these boxes differently. They depend upon exactly what specialty you are talking about.

So let me just pick physics -- Core strengths. If you look at other major departments around the country you will recognize quickly that each of them has a major program in condensed matter physics, the key to high temperature superconducting materials for instance, as well as experimental and theoretical high energy physics. And indeed, at Ohio State our department has these core strengths. So that is a plus; we are in the ball game in terms of the core programs.

Faculty specialty areas -- Again looking at physics, you will find that theoretical physics has a special place in the hierarchy. It is very important to have a strong theoretical physics program.

Research infrastructure -- In physics it is necessary if you have a high energy physics program, to have outstanding shop facilities -- an electronic shop, a machine shop. Because that is where the new black boxes are designed and made and fabricated and imported into the major facilities such as Fermi Lab and Cern and the laboratories in Japan. It is very much an international ball game. But the really creative work, fabrication of devises, is done on campus.

Communications network -- What that means is that if some big question comes up in Washington and the New York Times reporter wants information, it is necessary that our local network be well in place so that we get the phone calls, we're involved, we know about it, we participate. That is a very non-trivial aspect. It is a role that the senior leadership in the college must play.

Reputational aura, again, using physics -- you think about the Manhattan Project. You remember that Columbia University and the University of Chicago played very important roles. And quite independently of what the current strengths of those programs are today, people still remember that. And so that Chicago and Columbia are still viewed as centers of strength in physics, independently, of what reality might be.

So all these factors have to be taken into account for physics, all the other areas in our college, and somehow integrated into a measure that we can deal with operationally.

Now where are we and where would we like to go as a college. Let me show you a little more data here. What we have is another view graph giving the average National Research Council ranking. Average ranking of our three major departments, that is 80% of the college faculty wide -- chemistry, physics, and mathematics -- for the last year that it was done, 1982. The new ranking will probably come out about 1992, around every 10 years. Along the abscissa I have given the number of National Academy members for the current year. This is a scatter diagram and the smaller the number the better the quality, according to the studies. So if you had a perfect score of one down here, you would be the best university in the land as far as these three fields are concerned. So what you notice is that Berkeley,
November 4, 1988 meeting, Board of Trustees

Dr. Kern: (contd)

Harvard, Chicago, Stanford, Princeton, MIT, CalTech, Cornell, and Columbia, essentially the privates, are in the most favored positions in terms of their rankings. And it is also apparent from the view graph that they also have the largest number of National Academy of Science members, which this view graph suggests is an indicator of quality.

Then you get back here to the major institutions in the heartland where we have Illinois, Wisconsin, University of Texas, Pennsylvania, University of California at San Diego, Minnesota, Ohio State, along with Brandeis, North Carolina, and the University of Michigan. So in terms of where we are today, in terms of our major departments, we have three members of the National Academy in our College and according to this analysis, one needs to get to around ten or so, in order to substantially improve our ranking over the competition. So one of the questions that we are dealing with is whether it is realistic for us to have that kind of goal, and if so, how we would attempt to meet it over the course of five years or more.

I would like to shift gears to tell you something that is very much on our minds these days within the College. Perhaps you saw this last Sunday, I believe it was in the New York Times -- "Shrinking Pool of American Mathematicians." For the first time (this is Ph.D. level) the number of foreign citizens who have received Ph.D.'s in mathematics has exceeded fifty percent of the total. That is an average number, but it is true here. It is also true in other fields such as physics. Moreover, I am sure you are very much aware of this, but I want to emphasize it -- as a former policy maker I am very much aware of these data, very much concerned under the banner of science education. The problem isn't just at the Ph.D. level, it is much, much earlier in the pipeline. Here is a list of some familiar litany of problems we are concerned with in preparation of teachers, performance of students, in terms of the basic science and mathematics that we really need in order to be a quantitatively and scientifically literate society. We simply have an inadequate supply of U.S. and foreign talent coming through the pipeline.

If you think about it very carefully, you conclude that it is not just the chemists and the physicists and the professional people that one is dealing with, but you are really dealing with a society as a whole. We want to ensure that our voters and our professionals in other fields are scientifically and mathematically literate. It is very clear that we are going to be having an increasingly high-tech work force. The question really is, as a nation, whether we can be competitive unless we make some changes.

This problem was recognized quite early in the College. My predecessor, Dean Emeritus Bull, was very active in putting into place a program that we call "Early Math Placement Testing." It is on the first chart that I will show you. It is a program whereby faculty from our College work with the high schools, the high school teachers and students, in order to increase the proficiency of those students who will be coming on to college, not only to Ohio State University, but just in general. This program has matured to the point now where over 75% of the high schools in Ohio are participating -- it affects some 70,000 high school students each
November 4, 1988 meeting, Board of Trustees

Dr. Kern: (contd)

year. And increasingly we are trying to deal with the student's proficiency and evaluation early on. It started with seniors, juniors, sophomores, and finally down to the junior high levels. And what I would like to indicate to you here -- I have some new data -- that this program has been extremely effective. From 1979 to 1988, almost a ten-year period, the fraction of those students who are coming to Ohio State as freshmen on this campus and who are ready for calculus has increased from 7% to 11%. Perhaps more importantly the level of remediation that we now give has dropped by almost a factor of two. Instead of half the students needing remediation in mathematics, now only one out of five do -- a significant improvement.

I might just say as an aside that for the last few years, I think in fact '86, '87, and '88, these numbers over here for remediation have been flopping around 19%, 20%, 21%. It doesn't seem to go any lower. We don't know exactly why, but the mathematicians who are involved in this program suspect that it is due to the inability of the students to comprehend the written word. At some point that becomes the limit, in terms of what you can achieve through this program and mathematics proficiency alone.

In terms of our planning, we are giving a great deal of thought to the possible generalization of the EMPT Program in mathematics to the other sciences. I don't know how that is going to come out. Professor Wilson is very interested in this topic and he himself has taken a lead role, not only within physics but within the College to try to stimulate some additional discussion on this subject. We are, of course, dealing with science literacy in the undergraduate curriculum. I am sure that you have heard about that in some earlier meetings, the general education reform. It is very much in our interest as well as in the interest of the engineering college, biological sciences college, that we try to improve the pipeline to our own professionals who will be coming through the system.

I very much appreciate this opportunity to tell you about our College. We are, of course, concerned with producing scientists for the next generation, but also ensuring that our society is literate in science and technical subjects. Our mission is very broad; you have seen the massive teaching instructional mission at the undergraduate level and our public service role. We certainly appreciate your support very deeply and thank you again for this opportunity to be with you.

President Jennings:

Thank you, Bill. Any questions or comments?

Mr. Teaford:

Mr. Wexner asked a question of the Dean at our last meeting and I think I would like to ask it for him. Are there things that you think this Board can do for your College and, if so, what are they?
Dr. Kern:

Yes, well -- I will answer that in two ways, Mr. Teaford. One is that there are some short-term concerns and some longer term concerns. The longer term aspects involve facilities and buildings. It is not a question of space per se, but really the quality of the space that is available for teaching and research. The tools that we need are very sophisticated for research, but also for teaching, in terms of computers. It is very important that the undergraduate laboratories be in top shape. We have been getting to the immediate concerns. We have made an estimate of the cost that it would take to completely modernize the undergraduate laboratories in our College — it is multi-millions. We know what to do, the space is there, it is a matter of the dollars available.

A related answer -- at the research level, is start-up costs for new faculty. The competition for outstanding faculty at all levels is extreme. A large number of positions in our fields go unfilled each year. So, if we want the best people, we must offer competitive packages. The salary, per se, is less of a concern than the start-up costs. These costs range from say $50,000 to $100,000, even for a mathematician at junior levels now, up to over a $1 million for very senior people. An example, in chemistry this year we added five new junior faculty members. The average start-up cost was $300,000. These prices escalated by a factor of 2 and 3 just over the last two or three years. I do not know where it will end.

Mr. Teaford:

Are those escalating because of the increasingly complex nature of their research?

Dr. Kern:

Yes and no. I think in part that is so, but I believe that the more critical factor now is simply the short supply of outstanding scholars -- they are really in very great demand. Universities are just competing with one another and offering the best possible package.

Mr. Teaford:

Thank you.

President Jennings:

Thank you, very much.

Mr. Immske:

Mr. Barone, would you like to give your report on the Research Foundation?

Mr. Barone:

Yes, Mr. Chairman. On the Research Foundation, I would like to report that the contracts for the month of September 1988, are shown
November 4, 1988 meeting, Board of Trustees

Mr. Baron: (contd)

in the agenda books. I think that there are times when the members of the Board should kind of peruse them, because we are utilizing the sum of $7 million for research. I think it is very important that the Research Foundation keep up its good work. And in order to keep up its good work, there are certain other facets that I think we should give a sound study to.

For example, the funding for the first three months of the fiscal year is 10.6% lower than for the same period of the last fiscal year, although the number of awards is up. The drop in dollar value is due largely to the timing of awards from the Department of Education, and the National Association of Regulatory Utility Commissioners.

Some of the highlights of the awards are:

* $360,000 award from the State of Ohio to Bruce Vondracek of the Department of Zoology for the Acquisition of a Research Vessel, up in the northern part of the State.

* $130,496 award from the Public Health Service to Stephen C. Olson of the Department of Psychiatry to study Brain Development in Schizophrenics.

* $40,000 award from the National Aeronautics and Space Administration to David D. Woods and Philip J. Smith of the Department of Industrial and Systems Engineering to conduct a study of Cognitive Engineering in Aerospace.

I have saved the last report:

* $135,000 award from the Department of Agriculture to Charles R. Curtis of the Department of Plant Pathology to fund a Study of the Agricultural Benefits of in the use of Pesticides.

I have been fortunate enough to have been with Dr. Curtis on various occasions, and I am most impressed with the area of plant pathology and microbiology. It is not just by chance that Ohio, for example, per acre, has the greatest corn production in the United States. It is not by chance, for example, that our grain is six times more nutritious than in Russia. The Russians make every effort to buy our grain for that reason, they are very well acquainted with that fact. Dr. Curtis has been doing outstanding work in the use of pesticides in plant pathology. Last year he was up in the Toledo area and there was an epidemic of bean infestation. He created an embargo and found that that bean came from South America. It has helped the State of Ohio, tremendously.

In this regard, I think that these millions of dollars in awards could begin to dry up unless we give it our special attention. We need to encourage people who have the excellent ability. And, in order to do that, once again, I would like to call on my good friend, Mr. Jackson, to see if he can help out to give our Research Foundation workers just a little bit better facility to work in. I think I brought that up once before. I hate to be repetitious, but I feel very strongly that with the market drying up, and these awards being more difficult, that in order to obtain good researchers we
November 4, 1988 meeting, Board of Trustees

Mr. Barone: (contd)

must in effect give them a good place to function and work, Mr. President.

President Jennings:

John, we appreciate that and, of course, we will be talking to the General Assembly about those issues. We are also in a private fund-raising campaign, too, Sir, and we would be delighted to accept checks for a research facility --

Mr. Immke:

Are you offering a building, John?

Mr. Teaford:

That has a good ring to it.

President Jennings:

"The Barone Research Center."

Mr. Teaford:

It goes together.

Mr. Kessler:

We need a little more support from Toledo. That is a good idea. Dick, don't worry about it, I think we got it.

Mr. Barone:

Right. I'll worry about it.

President Jennings:

We expect, how much is it, John, for the Columbus Campaign -- a $130 million?

Mr. Kessler:

$136 million.

President Jennings:

From Toledo we can expect, maybe, $100 million?

Mrs. Bowser:

A challenge to Toledo. Match it.

Mr. Barone:

That completes my report. I was going to ask for a discussion, but maybe I'll wait.
November 4, 1988 meeting, Board of Trustees

Mr. Immke:

Thank you.

--0--

WAIVER OF PARAGRAPH (G) OF BYLAW 3335-1-08 OF THE ADMINISTRATIVE CODE

Resolution No. 89-50

Synopsis: Request to waive paragraph (G) of bylaw 3335-1-08 of the Administrative Code for the naming of a center is proposed.

WHEREAS the Board of Trustees of The Ohio State University did, on January 9, 1976, amend paragraph (G) of bylaw 3335-1-08 of the Administrative Code to state that "buildings and structures shall not be named for any person who is an officer or employee of the University or the State of Ohio, but may be named for a person who has been retired or has otherwise left such a position for a minimum of three years"; and

WHEREAS the President wishes to recommend that the Black Cultural Center be named to honor Frank W. Hale, Jr., who will retire in December as Special Assistant to the President and Vice Provost for Minority Affairs:

NOW THEREFORE

BE IT RESOLVED, That the applicable requirements of paragraph (G) of bylaw 3335-1-08 of the Administrative Code be waived so that the Black Cultural Center may be named for an officer or employee of the University or the State of Ohio who has not been retired from such position for three years.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

NAMING OF CENTER

Resolution No. 89-51

Synopsis: A name is proposed for the Black Cultural Center now under construction in Bradford Commons at 153 West Twelfth Avenue.

WHEREAS this Board has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the Black Cultural Center symbolizes the University's continuing commitment to excellence through diversity; and

WHEREAS Frank W. Hale, Jr., serves the University as Special Assistant to the President and Vice Provost for Minority Affairs; and

WHEREAS his commitment to the highest standards of quality and equality is an inspiration to students, faculty, staff, and the community; and
November 4, 1988 meeting, Board of Trustees

NAMING OF CENTER (contd)

WHEREAS Frank Hale's accomplishments in his long and loyal service as a teacher, an educator, and a humanitarian are well known; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned Black Cultural Center at 153 West Twelfth Avenue be named in honor of Frank W. Hale, Jr.

NOW THEREFORE

BE IT RESOLVED, That hereafter the Black Cultural Center at 153 West Twelfth Avenue shall bear the name "The Frank W. Hale Black Cultural Center."

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

HOSPITALS BOARD APPOINTMENT

Resolution No. 89-52

Synopsis: Approval of emeritus status to a Hospitals Board member.

WHEREAS pursuant to bylaw 3335-93-01 of the University Hospitals Board Bylaws, the Board of Trustees may designate emeritus Hospitals Board members; and

WHEREAS Wilbur W. Jones has had a long and loyal association with this University and with University Hospitals; and

WHEREAS he was among the original members appointed to the Hospitals Board in 1980; and

WHEREAS his dedicated service, commitment and contributions to the Hospitals Board have been noteworthy:

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Hospitals Board and the President, the title of Hospitals Board Member Emeritus be conferred upon Mr. Wilbur W. Jones, effective September 1, 1988.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

DEGREES AND CERTIFICATES – AUTUMN QUARTER COMMENCEMENT

Resolution No. 89-53

Synopsis: Approval is being requested for awarding degrees and certificates for Autumn Quarter Commencement.
November 4, 1988 meeting, Board of Trustees

DEGREES AND CERTIFICATES - AUTUMN QUARTER COMMENCEMENT (contd)

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on December 9, 1988, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

HONORARY DEGREE Resolution No. 89-54

Synopsis: Approval is requested for awarding an honorary degree.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of an honorary degree as listed below:

Andrew W. Marshall Doctor of Science

NOW THEREFORE

BE IT RESOLVED, That the above honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

PERSONNEL ACTIONS Resolution No. 89-55

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the October 7, 1988 meeting of the Board, including the following Appointment of Chairpersons of Departments, Leaves of Absence Without Salary, Leaves of Absence Without Salary—Continuation, Professional Improvement Leave—Change in Dates, and
November 4, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved September 29, 1988, by the Hospitals Board be ratified.

Appointment of Chairperson of Departments

October 1, 1988 through September 30, 1989

Philosophy

Donald C. Hubin*

October 1, 1988 through June 30, 1992

Veterinary Preventive Medicine

Lawrence E. Heider

*Acting Chairperson

Leaves of Absence Without Salary

DAVID M. GOSS, Associate Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to do consulting work at the University of Maryland at Baltimore County.

MARTIN F. KENNEY, Assistant Professor, Ohio Agricultural Research and Development Center and Department of Agricultural Economics and Rural Sociology, effective November 7, 1988, through March 31, 1989, to be a Visiting Professor at the Institute of Business Research at Hitotsubashi University in Japan.

POK-SANG LAM, Assistant Professor, Department of Economics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to be a Visiting Professor at Stanford University.

SARAH E. WILLMER, Assistant Professor, Department of Architecture, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, for personal reasons.

PAUL YIU, Instructor, Department of Mathematics, Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, for personal reasons.

Leaves of Absence Without Salary--Continuation

KARL C. RUBIN, Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to do research at Columbia University.

ERNST RUH, Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to continue in a position at the University of Basil.

CRICHTON L. OGLE, Assistant Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to work on projects at Penn State University.

ALICE SILVERBERG, Assistant Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to pursue research at IBM Watson Laboratory.
November 4, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leave—Change in Dates

THOMAS W. MILBURN, Professor, Mershon Center, change dates from Winter Quarter, Spring Quarter and Autumn Quarter 1989, to Spring Quarter and Autumn Quarter 1989.

Emeritus Titles

FRANK W. HALE, JR., Office of Minority Affairs and Department of Communication, with the title Vice Provost and Professor Emeritus, effective January 1, 1989.

FREDERICK W. HEBBARD, College of Optometry, with the title Dean and Professor Emeritus, effective November 1, 1988.

HERSHEL J. HAUSMAN, Department of Physics, with the title Professor Emeritus, effective January 1, 1989.

DEVON W. MEEK, Department of Chemistry, with the title Professor Emeritus, effective November 1, 1988.

WALTER C. SWEET, Department of Geology and Mineralogy, with the title Professor Emeritus, effective October 1, 1988.

WALTER W. WADA, Department of Physics, with the title Professor Emeritus, effective January 1, 1989.

HARRY R. BLAINE, Academic Faculty of Management and Human Resources, with the title Associate Professor Emeritus, effective January 1, 1989.

JAMES E. JONES, Department of Veterinary Preventive Medicine, with the title Assistant Professor Emeritus, effective November 1, 1988.

CAROL R. KRUMM, University Libraries, with the title Assistant Professor Emeritus, effective January 1, 1989.

CATHARINE P. WARMBROD, National Center for Research and Vocational Education, with the title Research Specialist II - Vocational Education Emeritus, effective July 1, 1988.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 89-56

Synopsis: Resolutions honoring the service of three of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

280
November 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

E. Milton Boone

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 17, 1988, of E. Milton Boone, Professor Emeritus in the Department of Electrical Engineering.

Professor Boone was born February 17, 1903. He received his B.A. (cum laude) from the University of Colorado in 1926; an M.S. in Physics from the same institution in 1932; and an M.S. in Electrical Engineering from the University of Michigan in 1932. He served as head of the Engineering Department at Amarillo College from 1932 to 1937. He joined the faculty of The Ohio State University in 1937 as Assistant Professor of Electrical Engineering. He was promoted to Associate Professor in 1944 and to Professor in 1947. He retired from University service and was named Professor Emeritus in 1973.

In teaching, research and service, Professor Boone epitomized the excellence for which the University strives. He was a teacher virtually without peer. He was a teacher of unique capability and dedication. He won a University Alumni Award for Distinguished Teaching in 1970 and the departmental Eta Kappa Nu Distinguished Teaching Award three times, nearly every year he was eligible from the time of the award's inception in 1964 until his retirement in 1973. In the final analysis the contribution of a teacher to society is measured by the success of his or her students. Many of Professor Boone's students have achieved national and international recognition as leaders of the technological revolution in electronics and communication which has occurred over the last four decades. Professor Boone's students made equally dramatic contributions to education. It is not possible for a student to receive an education in Electrical engineering without encountering the names of Drs. Moll, Early and Ebers in electronics and Dr. Huffman in communication theory, for example. Many of his other students became accomplished educators.

Professor Boone founded the Electron Device Research Laboratory and personally made fundamental contributions to the understanding of electronic devices and phenomena. This group conducted basic research which produced a large volume of journal articles relating to electronics over a period of many years. The research unit which Professor Boone founded remains to this day a vital and productive unit within the Department of Electrical Engineering. He personally published many technical articles, and a textbook, Circuit Theory of Electron Devices, in 1953.

Professor Boone's service to his profession and to the University was truly exemplary. In addition to service on many college and departmental committees, he served on nearly 30 University-wide committees. He worked unselfishly for the Institute of Radio Engineers and the American Institute of Electrical Engineers. In addition to heading local sections of these professional organizations, he served on approximately a dozen national committees.

Professor Boone achieved and personified excellence in all areas of faculty involvement: teaching, service and contribution to knowledge. He was a leader who inspired those around him to strive for high levels of achievement.
November 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

E. Milton Boone (contd)

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Charles W. Conroy

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 11, 1988, of Charles W. Conroy, Professor Emeritus in the College of Dentistry.

Dr. Conroy was born on December 19, 1927, in Neodesha, Kansas. He received an A.B. degree from the University of Kansas in 1950, a D.D.S. degree in 1954 and M.S.D. degree in 1957, both from the University of Missouri, Kansas City and an M.Sc. degree from The Ohio State University in 1958.

He first joined the College of Dentistry as a National Institutes of Health Postdoctoral Fellow in Oral Pathology in 1957. After three years as a faculty member of the University of Texas Dental Branch, he returned to Ohio State in 1961 as an Instructor in Peridontics and the Director of Postgraduate Periodontics, a position he held until 1968. He became an Assistant Professor in 1962, an Associate Professor in 1965, and was promoted to Professor in 1967. From 1968 until 1976 he served as a research supervisor for the Research Foundation. He was a member of the faculty of the Graduate School from 1963 until his retirement in 1981.

Dr. Conroy contributed to the growth of postdoctoral education in the dental specialty of periodontics at Ohio State and in clinical research of a variety of problems relating to the etiology of periodontal disease and methods of diagnosis, prevention and treatment.

He was a research consultant to the United States Air Force, the Westinghouse Electric Company, the Johnson and Johnson Company, and the Procter and Gamble Company, and contributed to the development of several oral health products.

Dr. Conroy was elected to Sigma Xi and Omicron Kappa Upsilon, dental honorary society and awarded fellowship in the International College of Dentists. He was a Diplomate of the American Board of Periodontology. Active in organized dentistry, he was a member of the American Dental Association, the Ohio Dental Association and the Columbus Dental Society. He served as Chairman of the Columbus Section of the International Association of Dental Research and as President of the American Society of Dental Electrosurgery.

On behalf of the University community, the Board of Trustees expresses to the family of Charles W. Conroy its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.
RESOLUTIONS IN MEMORIAM (contd)

James H. Warner

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 26, 1988, of James H. Warner, Associate Professor Emeritus of the Ohio Cooperative Extension Service.

Mr. Warner was born on November 5, 1904, in Calais, Ohio. He received his B.S. in Agriculture from The Ohio State University in 1929.

Upon graduation from The Ohio State University, James Warner began teaching Vo-Agriculture in Radnor, Ohio (Delaware County). In May 1936 he began his Extension experience when he joined the faculty at The Ohio State University as a County Extension Agent, Agriculture in Allen County. Mr. Warner continued in this position until April 1948 when he became an Extension Specialist in the Department of Animal Science. He remained in this position until his retirement in 1966.

Mr. Warner was well known in the cattle industry and his contributions in providing excellent Extension educational programs during his career earned him the respect and admiration of his co-workers and many thousands of Ohio citizens throughout Allen County and in the Department of Animal Science at The Ohio State University.

On behalf of the University community, the Board of Trustees expresses to the family of Mr. Warner its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Ms. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-57

Synopsis: The reports on contracts, grants, and gifts and the summary for September 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

283
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of September 1988 be approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR SEPTEMBER 1988

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>121</td>
<td>$7,081,270.89</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>52</td>
<td>$1,680,617.00</td>
</tr>
<tr>
<td>Total</td>
<td>173</td>
<td>$8,761,887.89</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The TRC, Inc. Research Fund
  (College of Engineering for automotive research) $ 555,000.00
- The Ruth Jane Yauger Scholarship Fund
  (Scholarships - Home Economics) $ 66,666.67
- The Robert E. Georges Scholarship Fund
  (Scholarships - College of Business) $ 15,000.00
- The Hospitality Management Research Fund
  (Support research) $ 15,000.00
- The Charles Richard Hays Memorial Scholarship Fund
  (Scholarships - students in landscape architecture) $ 5,000.00

Change in the Name and Description of Named Funds

- From: The Roland Kennedy Scholarship Fund in Dairy Science
  To: The Lucile and Roland Kennedy Scholarship Fund in Dairy Science

- From: The Roland Kennedy Scholarship Fund in Home Economics
  To: The Lucile and Roland Kennedy Scholarship Fund in Home Economics

Change in the Description of a Named Fund

- The Robert B. Sutton Lecture in History of Education
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR SEPTEMBER 1988 (contd)

The Ohio State University Foundation

Approval of Description and Establishment of Fund

The Ingram-White Castle Scholarship Endowment Fund $ 500,000.00
# The Ohio State University Campaign Progress Report
@ September 30, 1988

<table>
<thead>
<tr>
<th></th>
<th>Current Year Campaign Receipts (Jul 88-Sep 88)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1988</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>$64,967,844</td>
<td>$38,283,424</td>
<td>$107,494,280</td>
<td>$122,500,000</td>
<td>88</td>
</tr>
<tr>
<td>Friends</td>
<td>33,736,675</td>
<td>28,643,850</td>
<td>63,805,860</td>
<td>70,000,000</td>
<td>91</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>16,403,878</td>
<td>101,125,935</td>
<td>122,568,905</td>
<td>122,500,000</td>
<td>98</td>
</tr>
<tr>
<td>Foundations</td>
<td>3,465,009</td>
<td>19,935,229</td>
<td>24,335,513</td>
<td>35,000,000</td>
<td>70</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$118,574,406</td>
<td>$187,988,438</td>
<td>$316,204,558</td>
<td>$350,000,000</td>
<td>90</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
## THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

### July-September 1987-88 Compared to 1988-89

**GIFT RECEIPTS BY DONOR TYPE**

<table>
<thead>
<tr>
<th></th>
<th>July through September</th>
<th>% Change</th>
<th>Dollars July through September</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alumni</strong></td>
<td>12,249</td>
<td>10,490</td>
<td>(14)</td>
<td>1,315,442</td>
</tr>
<tr>
<td><strong>Non Alumni</strong></td>
<td>7,622</td>
<td>7,269</td>
<td>(5)</td>
<td>1,359,927</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>451</td>
<td>615</td>
<td>36</td>
<td>1,556,576</td>
</tr>
<tr>
<td><strong>Corporate Foundations</strong></td>
<td>138</td>
<td>119</td>
<td>(14)</td>
<td>375,185</td>
</tr>
<tr>
<td><strong>Private Foundations</strong></td>
<td>44</td>
<td>50</td>
<td>14</td>
<td>5,354,163</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td>245</td>
<td>301</td>
<td>23</td>
<td>803,336</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>20,749</td>
<td>18,844</td>
<td>(9)</td>
<td>$10,764,629</td>
</tr>
</tbody>
</table>
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - September 1988

Federal Research Contracts/Grants

$766,965.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, East Central Regional AIDS Education and Training Center, Department of Family Medicine (L. L. Gabel) and Department of Internal Medicine (M. F. Para), 1 September 1988 through 31 August 1989. (Project 766345 - Continuation)

$232,133.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer), 1 October 1988 through 31 December 1988. (Project 763301 - Continuation)

$200,000.00 - National Aeronautics and Space Administration, Washington, D.C., Hypersonic Training and Research, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 1 August 1988 through 31 July 1989. (Project 765979 - Continuation)

$150,000.00 - Department of Health and Human Services, Office of Human Development Services, Washington, D.C., Child Abuse and Neglect Interdisciplinary Training Program, Department of Educational Policy and Leadership (L. L. Cunningham), 1 September 1988 through 31 August 1989. (Project 766454 - Continuation)

$145,160.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Ion Transport by Heart Mitochondria, Department of Physiological Chemistry (G. P. Brierley), 1 September 1988 through 31 August 1989. (Project 760026 - Continuation)

$135,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Evaluation Study of Approaches to Assess the Agricultural Benefits of Pesticide Use, Department of Plant Pathology - OARDC and Department of Plant Pathology (C. R. Curtis), 30 March 1987 through 31 August 1989. (Project 767027 - New)

$134,243.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, DNA Damage in Oncogene Activation, Department of Radiology (A. A. Wani and S. M. D'Ambrosio), 1 September 1988 through 31 August 1989. (Project 766418 - Continuation)

$130,496.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Brain Development in Schizophrenics and Their Siblings, Department of Psychiatry (S. C. Olson), 1 September 1988 through 31 August 1989. (Project 767013 - New)

$120,000.00 - National Foundation for the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., Cinema History Project:
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Volumes 5 and 6, Department of Photography and Cinema (C. H. Harpole), 1 July 1988 through 30 June 1991. (Project 767052 - New)

$111,993.00 - National Science Foundation, Washington, D.C., Glaciological and Climatological Analysis of the Past 2,000 Years from Antarctic Ice Cores, Byrd Polar Research Center (E. Mosley-Thompson and L. G. Thompson), 1 July 1988 through 30 June 1989. (Project 764798 - Continuation)

$107,861.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Target Signature Modeling and Bistatic Scattering Measurement Studies, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside, R. J. Marhefka and I. J. Gupta), 1 September 1988 through 31 August 1989. (Project 767063 - New)

$92,123.00 - Department of Education, Washington, D.C., Enhancing Mathematics Through Technology Inservice, Department of Mathematics (F. Demana and B. K. Waits) and Department of Educational Theory and Practice (A. Osborne), 1 January 1989 through 31 December 1989. (Project 767006 - New)

$92,021.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neurochemical Correlates of Cerebellar Development, Department of Pharmacology (A. Rotter), 1 September 1988 through 31 August 1989. (Project 767074 - New)

$89,916.00 - Department of the Army, Army Materiel Command, Redstone Arsenal, Alabama, Radar Cross Section Prediction Code Development, Department of Electrical Engineering, ElectroScience Laboratory (R. J. Marhefka), 1 October 1988 through 22 August 1989. (Project 765718 - Continuation)

$87,921.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Inhibitory Mechanism of Gossypol on Tapeworm, Department of Veterinary Pathobiology (Y. Rikihisa), 1 September 1988 through 31 August 1989. (Project 765683 - Continuation)


$81,485.00 - Department of Energy, Idaho Falls, Idaho, Upgrade of The Ohio State University Nuclear Reactor Laboratory, Engineering Experiment Station (D. W. Miller), 19 September 1988 through 30 June 1989. (Project 764911 - Continuation)

$81,200.00 - Department of Agriculture, Science and Education, Washington, D.C., Molecular Mechanisms of Geminivirus Replication, Biotechnology Program and Department of Molecular Genetics (D. M.
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Bisaro), 1 September 1988 through 31 August 1989. (Project 766350 - Continuation)

$79,798.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Optimal Corneal Shape, College of Optometry (L. G. Carney), 30 September 1988 through 29 September 1989. (Project 766416 - Continuation)

$74,704.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Development and Implementation of a Ph.D. Program in Special Education with Emphasis in Applied Behavior Analysis, Department of Education Services and Research (W. L. Heward), 1 October 1988 through 30 September 1989. (Project 766390 - Continuation)

$74,360.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neurochemical Studies of Central Nervous System Cardiovascular Centers, Department of Pharmacology (A. Rotter), 1 September 1988 through 31 March 1989. (Project 767018 - New)

$73,962.00 - Environmental Protection Agency, Washington, D.C., Development of Improved Field Equipment and Interpretation Procedures for Ground Penetrating Radar to Analyze the Geohydrologic Setting of Hazardous Waste Sites, Department of Geology and Mineralogy (J. J. Daniels) and Department of Electrical Engineering (L. Peters, Jr.), 29 September 1988 through 28 September 1990. (Project 767043 - New)

$73,296.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Human Erythroid-Potentiating Activity, Department of Internal Medicine (B. R. Avalos), 1 August 1988 through 31 July 1989. (Project 766427 - Continuation)

$70,000.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Juvenile Hormones and Hormone Regulators in the Development of the Gypsy Moth, Department of Entomology (D. L. Denlinger), 18 August 1988 through 15 September 1991. (Project 765658 - Continuation)

$69,983.00 - National Science Foundation, Washington, D.C., Consortium for Integration of Engineering Research Groups, Engineering Experiment Station (T. Altan), 1 August 1988 through 31 January 1989. (Project 765393 - Continuation)

$68,021.00 - Department of Agriculture, Science and Education, Washington, D.C., Extracellular Bacterial Proteases as Enhancers of Avian Influenza Virus Virulence, Department of Veterinary Preventive Medicine (R. D. Slemons) and Department of Veterinary Pathobiology (D. E. Swayne), 1 September 1988 through 31 August 1990. (Project 767076 - New)

$65,798.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Training Grant in Rehabilitation Counseling, Department of Education Services and Research
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

(B. Growick), 1 September 1988 through 31 August 1989. (Project 765724 - Continuation)

$60,460.00 - National Science Foundation, Washington, D.C., The Organization of Informational Structure in Articulator Movement and Acoustic Duration Patterns, Department of Linguistics (M. E. Beckman), 1 December 1989 through 30 November 1990. (Project 766069 - Continuation)


$53,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Mechanisms Regulating Nodulation Formation in Soybean, Department of Agronomy - OARDC and Department of Agronomy (W. D. Bauer), 1 October 1988 through 30 September 1989. (Project 765653 - Continuation)

$50,000.00 - National Science Foundation, Washington, D.C., High Resolution X-Ray Diffraction Studies of Silicate Minerals, Department of Geology and Mineralogy (J. W. Downs), 1 June 1988 through 30 November 1989. (Project 765971 - Continuation)

$48,000.00 - Department of Agriculture, Science and Education, Washington, D.C., A Multidisciplinary Ph.D. Fellowship Program in Food Chemistry, Department of Food Science and Nutrition (J. H. Martin), 1 September 1988 through 31 August 1993. (Project 767034 - New)

$41,231.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Fellowships for Slavic and East European Studies, Graduate School Administration (R. A. Koenigsknecht) and Office of International Affairs (J. P. Scanlan and C. Hermann), 15 August 1988 through 14 August 1989. (Project 767007 - Continuation)

$40,663.00 - Department of Commerce, National Bureau of Standards, Gaithersburg, Maryland, A Centralized Database for Thermodynamic Data on Lipid Mesomorphic Phase Transitions and Miscibility, Department of Chemistry (M. Caffrey), 1 September 1988 through 31 August 1989. (Project 767047 - New)

$40,000.00 - Department of Energy, Idaho Falls, Idaho, Energy Reactor Sharing Program, Engineering Experiment Station (R. D. Myser), 1 September 1988 through 30 August 1989. (Project 762411 - Continuation)

$40,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Cognitive Engineering in Aerospace: The Alarm Problem, Department of Industrial and Systems Engineering (D. D. Woods and P. J. Smith), 1 September 1988 through 31 August 1989. (Project 767035 - New)
<table>
<thead>
<tr>
<th>Title</th>
<th>Amount</th>
<th>Agency/Location</th>
<th>Project Description</th>
<th>Dates</th>
<th>Additional Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Health and Human Services, Public Health Service,</td>
<td>$35,018.00</td>
<td>National Institutes of Health, Bethesda, Maryland</td>
<td>Coronary Patients' Response to Noise and Communication, Department of Life Span</td>
<td>1 June 1988 through 31 May 1990.</td>
<td>(Project 766732</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(C. F. Baker)</td>
<td></td>
<td>Continuation</td>
</tr>
<tr>
<td>Federal Research Contracts/Grants (contd)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Health and Human Services, Public Health Service,</td>
<td>$35,000.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland,</td>
<td>Adaptive Arrays for Satellite Communication, Department of Electrical Engineering, ElectroScience Laboratory</td>
<td>19 August 1988 through 19 October 1988.</td>
<td>(Project 764040</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ohio</td>
<td>(I. J. Gupta and E. K. Walton)</td>
<td></td>
<td>- Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Foundation for the Arts and Humanities, National Endowment</td>
<td>$30,000.00</td>
<td>for the Humanities, Washington, D.C.</td>
<td>Archaelogical Study of Proto-Elamite Civilization in Anshan, Department of Anthropology (W. M. Sumner)</td>
<td>1 October 1988 through 30 September 1989.</td>
<td>(Project 767053</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Health and Human Services, Public Health Service,</td>
<td>$27,000.00</td>
<td>National Institutes of Health, Bethesda, Maryland</td>
<td>In Vitro and In Vivo Persistence of Canine Distemper Virus, Department of Veterinary Pathobiology</td>
<td>1 September 1988 through 31 August 1989.</td>
<td>(Project 767020</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(G. S. Krakowka and M. J. Oglesbee)</td>
<td></td>
<td>- New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Health and Human Services, Public Health Service,</td>
<td>$26,004.00</td>
<td>National Institutes of Health, Bethesda, Maryland</td>
<td>Intracellular Survival of Ehrlichia risticii, Department of Veterinary Pathobiology (Y. Rikihisa and M. Y. Wells),</td>
<td>15 September 1988 through 14 September 1989.</td>
<td>(Project 767058</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Aeronautics and Space Administration, Lewis Research Center,</td>
<td>$24,783.00</td>
<td>Cleveland, Ohio</td>
<td>Studies in Electromagnetic Scattering, Department of Electrical Engineering, ElectroScience Laboratory (P. H.</td>
<td>1 September 1988 through 31 December 1988.</td>
<td>(Project 763822</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pathak)</td>
<td></td>
<td>- Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Health and Human Services, Public Health Service,</td>
<td>$21,450.00</td>
<td>National Institutes of Health, Bethesda, Maryland</td>
<td>Lead and Cadmium from Smokeless Tobacco in Male Users, Diagnostic Services (C. J. Neal, Jr.) and Oral Biology (K. Schroeder),</td>
<td>1 September 1988 through 31 August 1989.</td>
<td>(Project 767064</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- New</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of the Army, Army Corps of Engineers, Fort Belvoir,</td>
<td>$19,797.00</td>
<td>Virginia</td>
<td>Process Data from Dynamic Global Positioning System Studies, Department of Geodetic Science and Surveying (C. C. Goad),</td>
<td>25 August 1988 through 24 December 1988.</td>
<td>(Project 767060</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- New</td>
</tr>
</tbody>
</table>
$17,886.00 - National Science Foundation, Washington, D.C., A Cooperative Climatological-Glaciological Program in the Antarctic Peninsula -- Phase I, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 September 1988 through 31 August 1989. (Project 767075 - New)

$17,132.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, MARC Predoctoral Fellowship, Department of Microbiology and Immunology (J. F. Sheridan), 1 September 1988 through 31 August 1989. (Project 766363 - Continuation)

$16,882.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genotoxicity in Human Fetal Brain, Dermis and Kidney Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 June 1988 through 31 May 1989. (Project 763673 - Continuation)

$15,000.00 - Department of the Interior, National Park Service, Omaha, Nebraska, Interpreting Biological Diversity: A Manual for National Park Service Communicators, Department of Natural Resources - OARDC and School of Natural Resources (G. W. Mullins), 15 August 1988 through 30 September 1989. (Project 767044 - New)

$15,000.00 - National Science Foundation, Washington, D.C., Ecological Engineering -- Theory and Development in the United States and China, Department of Natural Resources - OARDC and School of Natural Resources (W. J. Mitsch and D. L. Johnson), 1 October 1988 through 31 March 1990. (Project 767057 - New)

$6,000.00 - National Science Foundation, Washington, D.C., Satellite Studies of West Antarctic Surface Winds, Byrd Polar Research Center (D. H. Bromwich), 1 July 1988 through 31 December 1989. (Project 766840 - Continuation)

$5,908.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Comparative Aspects of Peripheral Lung Mechanics, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 December 1987 through 30 November 1988. (Project 765821 - Continuation)


$5,085.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Deoxyuridine Metabolism in Herpes Labialis, Department of Microbiology and Immunology (M. V. Williams), 1 July 1988 through 30 June 1989. (Project 764006 - Continuation)
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$5,000.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Effects of Acid Precipitation on the Stability of Insecticides Used for Gypsy Moth Control, Department of Entomology (S. W. Fisher), 1 July 1988 through 30 June 1989. (Project 767022 - New)

$2,275.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Decentralized Control and Identification Experiments for the NASA Langley Research Center SCOLE (Spacecraft Control Laboratory Experiment Program), Department of Electrical Engineering (U. Ozguner, S. Yurkovich and K. Ossman), 1 September 1988 through 31 December 1988. (Project 765807 - Continuation)

TOTAL - FEDERAL AWARDS $4,275,100.70

State of Ohio Research Contracts/Grants

$360,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Acquisition of a Research Vessel, Department of Zoology (B. Vondracek), 12 September 1988 through 30 June 1989. (Project 767054 - New)

$60,500.00 - State of Ohio, Board of Regents, Columbus, Ohio, Training Program for Middle School Life Science Teachers with Special Impact on Minority Teachers and Students, Biological Sciences Administration (A. M. Ackermann-Brown), Department of Botany (R. E. J. Boerner) and Department of Zoology (D. A. Culver), 15 July 1988 through 31 December 1989. (Project 767016 - New)

$50,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Comprehensive Adult Hemophilia Clinic, Department of Internal Medicine (S. P. Balcerzak), 1 July 1988 through 30 June 1989. (Project 762760 - Continuation)

$45,099.00 - State of Ohio, Board of Regents, Columbus, Ohio, A Seminar and Curriculum Material Development in Computer Science for Industrial Technology Teachers, Department of Engineering Graphics (G. R. Bertoline), 15 July 1988 through 31 December 1989. (Project 767031 - New)

$40,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Retention and Expansion of Existing Businesses, Department of Agricultural Economics and Rural Sociology - OARDC and Cooperative Extension State Operations (G. W. Morse), 1 July 1988 through 30 June 1989. (Project 765667 - Continuation)

$40,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Forensic Psychiatry Traineeship, Department of Psychology (H. L. Mirels), 1 July 1988 through 30 June 1989. (Project 767021 - Continuation)

$19,500.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, AIDS: The Artists' Response, Wexner Center for the Visual Arts (J. W. Green), 1 July 1988 through 30 June 1989. (Project 767026 - New)
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$9,500.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Advanced Training in Facilitating Adoption in Ohio for Developmentally Disabled Children, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 July 1988 through 30 September 1988. (Project 767012 - Continuation)

$5,750.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Mershon Concert Series, Mershon Auditorium (T. M. Van Leer), 23 September 1988 through 30 June 1989. (Project 767024 - New)

$5,400.00 - State of Ohio, Department of Health, Columbus, Ohio, OSU High Risk Perinatal Project -- Care of the High Risk Mother and Infant, Department of Pediatrics (L. Cordero), 1 October 1987 through 30 September 1988. (Project 765042 - Continuation)

$5,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Training Program for Middle School Life Science Teachers with Special Impact on Minority Teachers and Students, Biological Sciences Administration (A. M. Ackermann-Brown), Department of Botany (R. E. J. Boerner) and Department of Zoology (D. A. Culver), 15 July 1988 through 30 September 1988. (Project 767015 - New)

$4,149.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Publication Support for "The Journal: The Literary Magazine of The Ohio State University," Department of English (D. J. Citino), 1 October 1988 through 30 June 1989. (Project 767008 - New)

$3,916.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, The Columbus Living Theatre, Department of Theatre (J. Reilly), 1 July 1988 through 30 June 1989. (Project 767025 - New)

TOTAL - STATE OF OHIO AWARDS

$ 648,814.00

Industrial Research Contracts/Grants

$145,504.00 - The Procter and Gamble Company, Cincinnati, Ohio, The Relative Effects of Diets Containing Canola Oil, Safflower Oil, Olive Oil, and Lipids High in Saturated Fat on Serum Lipids and Platelet Function in Men, School of Allied Medical Professions (G. M. Wardlaw) and Department of Human Nutrition and Food Management (J. T. Snook), 1 July 1988 through 31 March 1989. (Project 766996 - New)

$135,785.00 - Chartwell Technologies, Inc. Columbus, Ohio, Diphenhydramine Bioavailability Full Study Protocol, Department of Pharmacology (N. Gerber), 3 May 1988 through 2 May 1989. (Project 765696 - Continuation)


$84,952.00 - Burroughs Wellcome, Research Triangle Park, North Carolina, A Multicenter, Placebo-Controlled, Parallel Design, Dose-Response
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Evaluation of the Safety and Efficacy of Lamotrigine as Add-On Therapy in Outpatients with Partial Seizures, Department of Neurology (M. E. Drake, Jr.), 1 May 1988 through 31 October 1989. (Project 766736 - New)

$67,520.00 - Pfizer, Inc., Groton, Connecticut, A Phase I Study to Determine the Difference Between Urine Concentrations of CP-73,850 at Steady State and the Urine Solubility of CP-73,850 in Healthy Volunteers, Department of Pharmacology (N. Gerber), 1 August 1988 through 31 July 1989. (Project 765696 - Continuation)

$52,163.00 - Pfizer, Inc., Groton, Connecticut, A Phase I Multiple Dose Study to Determine the Presence of Azithromycin in Cerebrospinal Fluid and to Assess Peripheral Blood Lymphocytes for Phospholipid Accumulation, Department of Pharmacology (N. Gerber), 18 April 1988 through 17 July 1988. (Project 765696 - Continuation)


$38,379.00 - Pfizer, Inc., Groton, Connecticut, A Pilot Study to Assess the Reproducibility of Steady State Serum Lithium Concentrations and Renal Clearance of Lithium in Healthy Volunteers, Department of Pharmacology (N. Gerber), 26 July 1988 through 5 August 1988. (Project 765696 - Continuation)

$32,768.00 - Chartwell Technologies, Inc. Columbus, Ohio, Diphenhydramine Bioavailability Pilot Study Protocol, Department of Pharmacology (N. Gerber), 11 April 1988 through 10 April 1989. (Project 765696 - Continuation)

$32,000.00 - Pfizer, Inc., Groton, Connecticut, A Randomized Multicenter Study of the Efficacy, Safety, and Toleration of Fluconazole or Clotrimazole Troches in the Patient with Oropharyngeal Thrush in Association with Malignancy, Department of Internal Medicine (S. L. Koletar and R. J. Fass), 1 July 1988 through 30 June 1990. (Project 767033 - New)


November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)


$16,525.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, Department of Electrical Engineering, ElectroScience Laboratory (R. J. Marhefka), 10 April 1987 through 15 August 1988. (Project 766088 - Continuation)

$10,003.00 - Datascope Corporation, Oakland, New Jersey, Evaluation of a Collagen Barrier System to Facilitate Guided Tissue Regeneration and New Attachment to the Human Tooth Root Previously Exposed by Periodontitis, Periodontology (C. W. Solt), 1 August 1988 through 31 July 1989. (Project 767073 - New)

$5,101.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Efficacy and Tolerability of Anafranil Versus Placebo in Obsessive-Compulsive Disorder, Department of Psychiatry (M. R. Mavissakalian), 11 November 1986 through 1 September 1989. (Project 765782 - Continuation)

$4,482.82 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink) and College of Pharmacy (J. J. MacKichan), 1 March 1988 through 28 February 1990. (Project 766635 - Continuation)

$1,000.00 - Chartwell Technologies, Inc., Columbus, Ohio, Bioequivalence Studies on Sustained Release Formulations, Department of Preventive Medicine (M. L. Moeschberger), 1 May 1988 through 30 September 1988. (Project 766893 - Continuation)

TOTAL - INDUSTRIAL AWARDS $ 832,211.82

Other Non-Federal Research Contracts/Grants

$397,391.00 - American Institute of Indian Studies, Minneapolis, Minnesota, American Institute of Indian Studies Center for Art and Archaeology, Department of History of Art (S. L. Huntington), 1 July 1988 through 30 June 1989. (Project 766037 - Continuation)

$238,304.00 - Riverside Research Institute, New York, New York, Compact Range Analysis Research, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside), 1 August 1988 through 31 July 1989. (Project 767079 - New)

Other Non-Federal Research Contracts/Grants (contd)

$60,000.00 - Southern Regional Education Board, Atlanta, Georgia, Secondary School Dropout Prevention Demonstration Project, The National Center for Research in Vocational Education (R. D. Ryan), 15 September 1988 through 31 August 1989. (Project 767069 - New)

$51,694.50 - Battelle Memorial Institute, Columbus, Ohio, Cloning of the IBV Spike Protein Gene and In Vivo Studies on a Fowl Poxvirus Vector, Department of Veterinary Pathobiology (G. S. Krakowka), 24 June 1988 through 30 June 1989. (Project 767029 - New)

$49,887.00 - University of Washington, Seattle, Washington, Communicative Interactions in Mainstream Settings, Nisonger Center (S. R. Schroeder), 1 July 1988 through 30 June 1989. (Project 767028 - Continuation)

$46,000.00 - American Cancer Society, New York, New York, Biochemical Pharmacology of New Aromatase Inhibitors for the Treatment of Estrogen-Dependent Cancers, College of Pharmacy (R. W. Brueggemeier), 1 July 1988 through 30 June 1989. (Project 764529 - Continuation)


$25,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Lipid and Lipoprotein Characterization of Both Familial Combined Hyperlipidemia and Familial Hypertriglyceridemia, Department of Pathology (H. A. I. Newman), 25 May 1988 through 31 August 1989. (Project 766758 - New)

$23,322.60 - Capital University, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 1 August 1988 through 31 May 1989. (Project 767023 - Continuation)

$22,655.00 - Hildegard Doerenkamp-Gerhard Zbiden Foundation 1, Chur, Switzerland, Advanced Suture Pattern Techniques: Application and Performance, Department of Veterinary Clinical Sciences (D. D. Smeak), 1 September 1988 through 31 August 1989. (Project 767046 - New)

$20,803.00 - University of California, Livermore, California, Noncontact Ultrasonic Method to Evaluate Porous Materials in Hostile Environments, Department of Welding Engineering (L. Adler), 1 October 1987 through 30 September 1988. (Project 767050 - New)

$15,476.40 - Ohio Dominican College, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1988 through 15 May 1989. (Project 767041 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$14,659.00 - Bowling Green State University, Bowling Green, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Northwest Region, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 767049 - New)


$14,000.00 - Seven Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766839 - Continuation)

$13,950.00 - Texas A & M University, College Station, Texas, Ocean Drilling Program Leg 120 Siliceous Microfossil Biostratigraphy and Paleoenviromental History of the Central Kerguelen Plateau, Byrd Polar Research Center (D. H. Elliot and D. M. Harwood), 1 September 1988 through 31 August 1989. (Project 767067 - Continuation)

$12,992.00 - Columbus State Community College, Columbus, Ohio, Intramural and Recreation Internship Program, School of Health, Physical Education and Recreation (W. A. Sutton), 1 July 1988 through 30 June 1989. (Project 767009 - Continuation)

$12,500.00 - Virginia Community College System, Blacksburg, Virginia, Models to Estimate the Premiums for Options on Commodity Future Contracts, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (S. H. Irwin), 1 January 1988 through 31 March 1989. (Project 767014 - New)


$9,261.00 - University of Maine at Orono, Orono, Maine, Producing Orthophoto Maps for Studying Ice Dynamics on Jakobshavns Glacier, Byrd Polar Research Center (D. H. Elliot and H. H. Brecher), 1 May 1988 through 31 October 1988. (Project 764717 - Continuation)


$8,995.00 - Northwestern University, Evanston, Illinois, Toughness, Strength, and R-Curve Behavior in Microcracking Materials, Department of Ceramic Engineering (D. W. Readey), 1 April 1988 through 30 June 1988. (Project 767017 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$7,975.00 - Children's Hospital Research Foundation, Columbus, Ohio, Vasoactive Intestinal Peptide Receptors on Immune Effector Cells, Department of Internal Medicine (T. M. O'Dorisio), 1 July 1988 through 30 June 1989. (Project 765296 - Continuation)

$7,887.24 - Otterbein College, Westerville, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 16 August 1988 through 15 June 1989. (Project 767042 - Continuation)

$5,922.00 - University of Chicago, Argonne, Illinois, An Internship Program on the Three-Dimensional Single Phase Thermal Hydraulics Code COMMIX-1A, Department of Mechanical Engineering (T. Aldemir), 15 June 1988 through 30 September 1988. (Project 766210 - Continuation)


$5,000.00 - American Society of Hospital Pharmacists Research and Education Foundation, Inc., Bethesda, Maryland, Relationship Between Medication Compliance and Patient Outcome in Kidney Transplant Patients, College of Pharmacy (D. S. Pathak), 1 October 1988 through 30 September 1989. (Project 767048 - New)

$5,000.00 - Rodale Institute, Emmaus, Pennsylvania, International Conference on Sustainable Agriculture, Ohio Agricultural Research and Development Center and Department of Entomology (C. A. Edwards), 1 July 1988 through 30 June 1989. (Project 766990 New)


$3,000.00 - Ohio Safety Belt Network, Inc., Columbus, Ohio, Innovative Approaches to Increasing Safety Belt Usage at The Ohio State University, School of Health, Physical Education and Recreation (B. K. Koch), 15 September 1988 through 15 June 1989. (Project 767040 - Continuation)

$2,018.00 - Oakland Schools, Pontiac, Michigan, Technical Assistance to Develop a Regional Plan for Northwest Oakland County, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1988 through 31 October 1988. (Project 767068 - New)

$350.00 - Sigma Xi, New Haven, Connecticut, Apical and Basal Sertoli Cell Membrane Components Characterized by Monoclonal Antibody Technology, Department of Anatomy (R. M. DePhilip), 1 August 1988 through 1 August 1989. (Project 767082 - New)
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$344.63 - The Wexner Foundation, Columbus, Ohio, A Multi-Media Renaissance Theatre and T.V. Production of A Comedy of Betrothal, Department of Theatre (A. S. Golding), 1 January 1988 through 30 June 1988. (Project 766575 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $1,325,144.37

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$137,098.00 - Ohio Industrial Commission, Columbus, OH, "Evaluation of the Motion Component in Manual Lifting," Department of Industrial and Systems Engineering, 1 July 1988 through 30 June 1989. (529771)

$35,000.00 - Ohio Department of Transportation, Columbus, OH, "Evaluation of Remedial Measures for Embankment Failures," Department of Civil Engineering, 1 September 1988 through 31 August 1989. (529773)

$23,611.00 - Thomas Edison Program, Ohio Department of Development, Columbus, OH, "Development of Integrated Computer Aided Analysis and Design Software for Kinematics and Control," Department of Mechanical Engineering, 1 August 1985 through 30 September 1988 (312848, Ext. 1)

$8,151.00 - Ohio Coal Development Office, Columbus, OH, "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," Department of Chemical Engineering, 1 August 1988 through 31 December 1988. (529774)

TOTAL - STATE SPONSORED RESEARCH $203,860.00

Industrial and Other Sponsored Research and Development

$286,000.00 - from various industry for membership in the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529200)

$264,478.00 - Chrysler Motors, Highland Park, MI "Corrosion Potential of Adhesive Bonded Automotive Structure," Department of Materials Science and Engineering, 1 September 1988 through 31 August 1991. (529772)

$174,590.00 - Branson Ultrasonics Corp., Danbury, CT, "Closed-Loop Control of Ultrasonic Welder," Department of Welding Engineering, 1 September 1988 through 31 August 1991. (312473)

$114,535.00 - American Electric Power Service Corp., Columbus, OH; "The Determination of Synchronous Machine Stability Study Constants for Rockport Unit 1-HP," Department of Electrical Engineering, 1 May 1987 through 30 September 1990. (312409, Ext. 1)
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$80,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Range R&D Consortium, Department of Electrical Engineering. (312884)

$59,894.00 - U.S. West Advanced Technologies, Englewood, CO, "Improving the Performance of Packet Radio Networks with Adaptive Array Antennas," Department of Electrical Engineering, 1 October 1987 through 30 September 1989. (529742, Ext. 1)


$56,730.00 - General Electric, Cincinnati, OH, "Plasma Arc Tunnel System," Department of Aeronautical and Astronautical Engineering, 9 September 1987 through 30 June 1988. (312432, Ext. 1)

$50,950.00 - General Electric, Cincinnati, OH, "Inlet Test 2 Hypersonic Inlet Test," Department of Aeronautical and Astronautical Engineering, 15 July 1988 through 15 October 1988. (312468)


$42,300.00 - Battelle Columbus Division, Columbus, OH, "Transport and Dosimetry Analysis Test Specimen Evaluation," Nuclear Reactor Lab, 1 April 1988 through 31 December 1988 (312460, Ext. 1)

$30,000.00 - General Motors Corporation, Warren, MI, "Polymer Engineering Research Program," Department of Chemical Engineering, 1 September 1988 through 31 August, 1989. (529638, Ext. 6)

$30,000.00 - from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529202)


$25,778.00 - from 20 sponsors of 24 development projects in four departments/research areas of the college.

$22,000.00 - EPRI, Palo Alto, CA, "Modeling of Electromagnetic Fields in Substations," Department of Electrical Engineering, 1 August 1988 through 31 December 1988. (529770)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$19,953.00 - Dow Chemical, Midland, MI, "Fundamental Sorbent Properties for Application in Gas Drying by Pressure Swing Adsorption," Department of Chemical Engineering, 1 July 1988 through 30 June 1989. (529776)

$19,828.00 - Union Carbide Corporation, Danbury, CT, "Diffusion-Induced Separation by Pressure Swing Adsorption for Separation of Nitrogen from the Air," Department of Chemical Engineering, 1 July 1988 through 31 December 1988. (529775)

$14,209.00 - Westvaco Corporation, Covington, VA, "Development of Diagnostic System for the Wartsila Roll Wrapper," Department of Chemical Engineering, 1 July 1987 through 31 August 1988. (312429, Ext. 1)


$10,000.00 - Battelle Columbus Labs, Columbus, OH, "Evaluate and Test Heat Pump Component Performance," Department of Mechanical Engineering, 1 August 1985 through 31 May 1988. (312858, Ext. 4)

$8,500.00 - General Electric, Cincinnati, OH, "Testing of the GE36 Unducted Fan Engine Simulator in Three Existing Engine Test Case Models," Department of Aeronautical and Astronautical Engineering, 1 September 1987 through 30 September 1988. (312433, Ext. 1)

$6,000.00 - from various industry for "Membership in Program to Develop Computer Aided Machine Design Modules - Phase II," Department of Mechanical Engineering. (312594)

$6,000.00 - Battelle Columbus Division, Columbus, OH, "Transatmospheric Vehicle Air Data Sensing Study," Department of Aeronautical and Astronautical Engineering, 20 July 1988 through 30 September 1988. (312466)

$4,982.00 - AITRC, Columbus, OH, "Parallel Processing to Aid Information Retrieval," Department of Electrical Engineering, 15 July 1988 through 30 September 1988. (529769)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $1,476,757.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The TRC, Inc. Research Fund

The TRC, Inc. Research Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from TRC, Inc., a nonprofit corporation located in Columbus, Ohio.
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The TRC, Inc. Research Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used in the College of Engineering for the support and encouragement of research in automotive, vehicular and related forms of transportation and for development of improved highway facilities for vehicular traffic. The Dean of the College of Engineering shall supervise the expenditure of the fund.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Ruth Jane Yauger Scholarship Fund

The Ruth Jane Yauger Scholarship Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Ruth Jane Yauger (B.S. Home Economics '29, M.S. '48) of Akron, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for Home Economics graduate student scholarships, fellowships, or associateships. Selections shall be made each year by the Dean of the College of Home Economics or his/her designees.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the Dean of the College of Home Economics or the appropriate administrative officials of the University who are then directly responsible for Home Economics education, in order to carry out the desire of the donor.

The Hospitality Management Research Fund

The Hospitality Management Research Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Hospitality Management Research Fund (contd)

The Ohio State University Development Fund from industry and friends, faculty, and alumni of The Ohio State University.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Annual income shall be used to support faculty and graduate student research in hospitality management in the Department of Human Nutrition and Food Management, as authorized by the department chairperson with the advice of the faculty.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Hospitality Management programs or the Dean of the College of Home Economics, in order to carry out the desire of the donors.

The Robert E. Georges Scholarship Fund

The Robert E. Georges Scholarship Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from corporations and friends of Robert E. Georges (B.S. Bus. Adm. '56) of Westerville, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide a scholarship(s) to any senior in the undergraduate program in the College of Business in good standing who is recommended by any faculty chairperson and approved by the College of Business Scholarship Committee in coordination with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for undergraduate education in the College of Business in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Charles Richard Hays Memorial Scholarship Fund

The Charles Richard Hays Memorial Scholarship Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the family and friends of Charles Richard Hays (B.S. Landscape Architecture '55) of Pittsburgh, Pennsylvania.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more undergraduate scholarships to students in the field of landscape architecture. Selection shall be made by the Department of Landscape Architecture Scholarship Committee in coordination with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate department chairperson or program administrative officer responsible for landscape architecture education, in order to carry out the desire of the donors.

Change in Name of a Named Funds

The Lucile and Roland Kennedy Scholarship Fund in Dairy Science

The Roland Kennedy Scholarship Fund in Dairy Science was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Lucile W. Kennedy (B.S.H.E. '21), Marysville, Ohio, in memory of Roland N. Kennedy. The name was changed November 4, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide undergraduate and/or graduate scholarships, fellowships, or associateships for students enrolled in the Department of Dairy Science. The selection of the recipient(s) is to be made upon the recommendation of the Chairperson of the Department of Dairy Science in the College of Agriculture, in consultation with the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name of Named Funds (contd)

The Lucile and Roland Kennedy Scholarship Fund in Dairy Science (contd)

determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Dairy Science Education or the Vice President for Agricultural Administration, in order to carry out the desire of the donor.

The Lucile and Roland Kennedy Scholarship Fund in Home Economics

The Roland Kennedy Scholarship Fund in Home Economics was established September 2, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Lucile W. Kennedy (B.S.H.E. '21), Marysville, Ohio, in memory of Roland N. Kennedy. The name was changed November 4, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide undergraduate and/or graduate scholarships, fellowships, or associateships for students enrolled in the College of Home Economics. The selection of the recipient(s) is to be made upon the recommendation of the Dean of the College of Home Economics, in consultation with the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Home Economics, or the Dean of the College of Home Economics, in order to carry out the desire of the donor.

Change in Description of Named Fund

The Robert B. Sutton Lecture in History of Education

The Robert B. Sutton Lecture in History of Education was established December 5, 1986, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from family and students in honor of Robert B. Sutton, Professor Emeritus in the Department of Educational Policy and Leadership. The description was revised November 4, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund

The Robert B. Sutton Lecture in History of Education (contd)

The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support the Sutton Lecture in History of Education. The Dean of the College of Education shall form a committee of three to plan the lecture and select the speaker. There shall be one professor from the department responsible for teaching the history of education, one professor from the College of Education at large, and one professor from some other college of the University.

The topics addressed in the lecture should be related in some significant way to the history of education, broadly conceived, and therefore not necessarily limited to the United States of America. Successive lecturers may be chosen from any field of scholarly study.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for the study of the history of education.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

The Ingram-White Castle Scholarship Endowment Fund

The Ingram-White Castle Foundation Scholarship Endowment Fund was established November 4, 1988 by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with a gift from the Ingram-White Castle Foundation, of Columbus, Ohio.

Income provided by the Foundation shall be used to award undergraduate scholarships annually to students from the State of Ohio who show financial need. The scholarship recipient(s) shall be determined by the Committee on Student Financial Aid.

NON-MANDATORY TRANSFER FROM CURRENT FUNDS
FISCAL YEAR 1987-88

Resolution No. 89-58

Synopsis: Transfers to Endowment Principal Funds, Loan Funds, Annuity and Life Income Funds, Unexpended Plant Funds, Renewal and Replacement Funds - Remodeling and Renovation, Renewal and Replacement Funds - Repair
and Replacement, and Retirement of Indebtedness Funds are being recommended for approval.

WHEREAS non-mandatory transfers from current funds for the fiscal year 1987-88 have been made; and

WHEREAS this accounting procedure is in compliance with the Auditor of State that all transfers made among fund groups be reported:

NOW THEREFORE

BE IT RESOLVED, That the transfers as detailed in the accompanying report be accepted and approved.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
November 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

Non-Mandatory Transfers from Current Funds
Fiscal Year 1987-1988

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account Number</th>
<th>Transfer From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOWMENT FUNDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endowment Investment Pool</td>
<td>070000</td>
<td>032910</td>
<td>1,050.00</td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>010956</td>
<td>200,000.00</td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>050999</td>
<td>19,985.61</td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>051504</td>
<td>12,000.00</td>
</tr>
<tr>
<td>Income Reserve</td>
<td>070004</td>
<td>020000</td>
<td>(1,325,000.00)</td>
</tr>
<tr>
<td>College of Education Fund for Excellence</td>
<td>071385</td>
<td>031705</td>
<td>6,072.25</td>
</tr>
<tr>
<td>Josephine Sitterle Failer Award Fund</td>
<td>072116</td>
<td>035032</td>
<td>234.00</td>
</tr>
<tr>
<td>Friends of WOSU Endowment Fund</td>
<td>072324</td>
<td>033227</td>
<td>14,409.35</td>
</tr>
<tr>
<td>The Frank E. and Harriet E. Hedrick Aviation Student Award Fund</td>
<td>073059</td>
<td>037789</td>
<td>(6,022.93)</td>
</tr>
<tr>
<td>The R. Bruce Hohn Residency in Small Animal Veterinary Surgery</td>
<td>073248</td>
<td>011671</td>
<td>60.00</td>
</tr>
<tr>
<td>The Charlotte S. Huck Children's Literature Endowment Fund</td>
<td>073311</td>
<td>011662</td>
<td>59,596.50</td>
</tr>
<tr>
<td>The Charlotte S. Huck Children's Literature Endowment Fund</td>
<td>073311</td>
<td>031705</td>
<td>4,150.00</td>
</tr>
<tr>
<td>Humanities Fund</td>
<td>073338</td>
<td>032445</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Law Centennial Building</td>
<td>073976</td>
<td>038039</td>
<td>81,125.34</td>
</tr>
<tr>
<td>Ohio Eminent Scholar in Hydrogeology</td>
<td>075352</td>
<td>038442</td>
<td>250,000.00</td>
</tr>
<tr>
<td>Ohio Eminent Scholar in Materials Research</td>
<td>075355</td>
<td>038441</td>
<td>250,000.00</td>
</tr>
<tr>
<td>OSU Name &amp; Seal Scholarship Fund</td>
<td>075427</td>
<td>015102</td>
<td>350,000.00</td>
</tr>
<tr>
<td>Endowment Fund for Research in Optometry</td>
<td>075510</td>
<td>035260</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Pharmacy Advancement</td>
<td>075725</td>
<td>010000</td>
<td>(35,000.00)</td>
</tr>
<tr>
<td>Pharmacy Advancement</td>
<td>075725</td>
<td>050520</td>
<td>(22,500.00)</td>
</tr>
<tr>
<td>Franz Theodore Stone Laboratory Visiting Professorship Fund</td>
<td>077014</td>
<td>033701</td>
<td>4,000.00</td>
</tr>
<tr>
<td>Robert Taylor Fellowship</td>
<td>077137</td>
<td>036306</td>
<td>46,450.00</td>
</tr>
<tr>
<td>Unrestricted Gifts</td>
<td>077435</td>
<td>015003</td>
<td>3,956.81</td>
</tr>
<tr>
<td>Unrestricted Gifts</td>
<td>077435</td>
<td>015004</td>
<td>2,720.10</td>
</tr>
<tr>
<td>Unrestricted Gifts</td>
<td>077435</td>
<td>015015</td>
<td>47,779.95</td>
</tr>
<tr>
<td>Florence O. Wilson Fund</td>
<td>077723</td>
<td>011073</td>
<td>1,972.35</td>
</tr>
<tr>
<td>Hazel C. Youngberg Memorial Fund</td>
<td>077788</td>
<td>015027</td>
<td>123,607.98</td>
</tr>
<tr>
<td>Various Endowment Funds</td>
<td>07XXXX</td>
<td>02XXXX</td>
<td>897,447.69</td>
</tr>
</tbody>
</table>

Total Transfers to Endowment Principal Funds $1,048,095.00

310
### Non-Mandatory Transfers from Current Funds

**Fiscal Year 1987-1988**

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Transfer From A/C</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To: LOAN FUNDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Loans-ATI</td>
<td>079991 033230</td>
<td>(24,467.78)</td>
</tr>
<tr>
<td><strong>Total Transfers to Loan Funds</strong></td>
<td></td>
<td>$24,467.78</td>
</tr>
<tr>
<td><strong>To: ANNUITY AND LIFE INCOME FUNDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H.W.Almen Annuity &amp; Life Income Fund</td>
<td>077961 038191</td>
<td>(187.86)</td>
</tr>
<tr>
<td>**Total Transfers to Annuity and Life</td>
<td></td>
<td>$187.86</td>
</tr>
<tr>
<td>Income Funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>To: PLANT FUNDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unexpended</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cancer Clinic-Dave Thomas Gift</td>
<td>082062 050511</td>
<td>(254,015.94)</td>
</tr>
<tr>
<td>Twelfth Avenue Ramp</td>
<td>082066 016007</td>
<td>(4,335.81)</td>
</tr>
<tr>
<td>Northwest Utility Plan</td>
<td>082074 010000</td>
<td>(50,000.00)</td>
</tr>
<tr>
<td>Biggs Facility - Gifts</td>
<td>082080 010063</td>
<td>(632,117.74)</td>
</tr>
<tr>
<td>Visual Arts Center-Gifts</td>
<td>082081 051501</td>
<td>(939,544.87)</td>
</tr>
<tr>
<td>**Total Transfers to Unexpended Plant</td>
<td></td>
<td>$(1,880,014.36)</td>
</tr>
<tr>
<td>Funds**</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Renewal and Replacement Funds -</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remodeling and Renovation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dorm Contingency Fund</td>
<td>085049 010063</td>
<td>(315,193.64)</td>
</tr>
<tr>
<td>Dorm Contingency Fund</td>
<td>085049 017200</td>
<td>250,000.00</td>
</tr>
<tr>
<td>Public Safety Building Remodeling</td>
<td>085067 010000</td>
<td>(27,385.00)</td>
</tr>
<tr>
<td>Parking Lot Repairs</td>
<td>085071 016007</td>
<td>25,000.00</td>
</tr>
<tr>
<td>Housing Commission #3 Retrofit</td>
<td>085169 017300</td>
<td>1,016.64</td>
</tr>
<tr>
<td>Parking Ramp Repair</td>
<td>085175 016007</td>
<td>25,000.00</td>
</tr>
<tr>
<td>South Medical Parking Ramp</td>
<td>085176 016007</td>
<td>50,000.00</td>
</tr>
<tr>
<td>Mendenhall - Cold Room</td>
<td>085193 010000</td>
<td>20,177.00</td>
</tr>
<tr>
<td>Farm Science Review Relocation</td>
<td>085196 011083</td>
<td>150,000.00</td>
</tr>
<tr>
<td>Airport Renovations (Project 1)</td>
<td>085223 010000</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Building Maintenance Reserve</td>
<td>085231 014007</td>
<td>50,000.00</td>
</tr>
<tr>
<td>MOSU Equipment</td>
<td>085254 033227</td>
<td>(499.06)</td>
</tr>
<tr>
<td>18th Avenue Extention</td>
<td>085259 010000</td>
<td>270,300.00</td>
</tr>
<tr>
<td>Lincoln Tower-1897RC</td>
<td>085268 010000</td>
<td>3,163.00</td>
</tr>
</tbody>
</table>
Non-Mandatory Transfers from Current Funds
Fiscal Year 1987-1988

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account Number</th>
<th>From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewal and Replacement Funds - Remodeling and Renovation - Continued</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Medical Parking Ramp</td>
<td>085269</td>
<td>016007</td>
<td>50,000.00</td>
</tr>
<tr>
<td>Ohio Union Roof Repair</td>
<td>085270</td>
<td>010000</td>
<td>(10,627.05)</td>
</tr>
<tr>
<td>UNITS Project</td>
<td>085276</td>
<td>010000</td>
<td>(183,938.92)</td>
</tr>
<tr>
<td>Lincoln Tower 7th Floor Renovation</td>
<td>085301</td>
<td>010000</td>
<td>30,896.45</td>
</tr>
<tr>
<td>Back Pressure Turbine</td>
<td>085310</td>
<td>010000</td>
<td>(20,010.60)</td>
</tr>
<tr>
<td>Conard Gallery - Mansfield</td>
<td>085314</td>
<td>037965</td>
<td>30,000.00</td>
</tr>
<tr>
<td>1985B Gen Receipt Bond Constrn Fund</td>
<td>085315</td>
<td>014110</td>
<td>2,160.00</td>
</tr>
<tr>
<td>Wiseman Lab Renovation</td>
<td>085316</td>
<td>057171</td>
<td>50,000.00</td>
</tr>
<tr>
<td>1986 Gen Receipt Bond Constrn Fund</td>
<td>085350</td>
<td>010061</td>
<td>(1,746,339.90)</td>
</tr>
<tr>
<td>Hamilton Hall Relocation</td>
<td>085353</td>
<td>010000</td>
<td>60,091.00</td>
</tr>
<tr>
<td>Kottman-Biotechnology Lab</td>
<td>085365</td>
<td>010000</td>
<td>(141,250.00)</td>
</tr>
<tr>
<td>AM Night Transmitter</td>
<td>085376</td>
<td>033227</td>
<td>575,720.00</td>
</tr>
<tr>
<td>Lima Parking #3 West</td>
<td>085380</td>
<td>010928</td>
<td>10,705.60</td>
</tr>
<tr>
<td>Rightmire Biotechnology Center</td>
<td>085381</td>
<td>010000</td>
<td>3,682,960.06</td>
</tr>
<tr>
<td>Treasurer's Office Renovation</td>
<td>085389</td>
<td>010000</td>
<td>(124,894.00)</td>
</tr>
<tr>
<td>Treasurer-Renovtn of Lincoln Tower</td>
<td>085389</td>
<td>015036</td>
<td>130,830.00</td>
</tr>
<tr>
<td>Emergency Lighting</td>
<td>085391</td>
<td>010000</td>
<td>5,510.00</td>
</tr>
<tr>
<td>International Studies Remodel</td>
<td>085396</td>
<td>010000</td>
<td>18,879.00</td>
</tr>
<tr>
<td>Johnston Lab Renovation</td>
<td>085397</td>
<td>010000</td>
<td>28,000.00</td>
</tr>
<tr>
<td>Sisson Lab Renovation</td>
<td>085401</td>
<td>015108</td>
<td>36,455.00</td>
</tr>
<tr>
<td>Oxley Hall Renovation</td>
<td>085402</td>
<td>010000</td>
<td>60,000.00</td>
</tr>
<tr>
<td>Enarson Hall Renovation</td>
<td>085414</td>
<td>010000</td>
<td>12,500.00</td>
</tr>
<tr>
<td>Library Project 2848 AR</td>
<td>085428</td>
<td>011085</td>
<td>6,375.00</td>
</tr>
<tr>
<td>Student Life Renovation</td>
<td>085429</td>
<td>010000</td>
<td>9,000.00</td>
</tr>
<tr>
<td>Smith Renovation - Project 2951</td>
<td>085434</td>
<td>010000</td>
<td>117,895.00</td>
</tr>
<tr>
<td>Project 4804 - Starling-Loving</td>
<td>085435</td>
<td>057171</td>
<td>166,258.00</td>
</tr>
<tr>
<td>Project 2825 - Cunz Renovation</td>
<td>085436</td>
<td>010000</td>
<td>23,090.00</td>
</tr>
<tr>
<td>Project 2851 AR-Goss Lab</td>
<td>085441</td>
<td>015109</td>
<td>63,139.00</td>
</tr>
<tr>
<td>Project 2851 AR-Goss Lab</td>
<td>085441</td>
<td>015109</td>
<td>2,450.00</td>
</tr>
<tr>
<td>St. John Arena Scoreboard</td>
<td>085443</td>
<td>010063</td>
<td>1,031,445.89</td>
</tr>
<tr>
<td>WOSU Transmitter</td>
<td>085447</td>
<td>033227</td>
<td>119,369.00</td>
</tr>
<tr>
<td>Project 3013-Postle Hall</td>
<td>085449</td>
<td>010000</td>
<td>23,000.00</td>
</tr>
<tr>
<td>Project 3013-Postle Hall</td>
<td>085449</td>
<td>034947</td>
<td>34,760.00</td>
</tr>
<tr>
<td>Pressey Hall/Phase II</td>
<td>085455</td>
<td>010000</td>
<td>100,000.00</td>
</tr>
<tr>
<td>Project 2885 - Rightmire Renovation</td>
<td>085463</td>
<td>010000</td>
<td>48,033.00</td>
</tr>
<tr>
<td>Project 3005-Growth Chambers</td>
<td>085471</td>
<td>010000</td>
<td>540,000.00</td>
</tr>
<tr>
<td>Project 2985-Green House</td>
<td>085472</td>
<td>010000</td>
<td>260,000.00</td>
</tr>
<tr>
<td>Hopkins Fire-Project 3127</td>
<td>085473</td>
<td>010000</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Project 3122-Eminent Scholar Office</td>
<td>085475</td>
<td>010000</td>
<td>27,664.00</td>
</tr>
</tbody>
</table>
### Non-Mandatory Transfers from Current Funds
**Fiscal Year 1987-1988**

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account Number</th>
<th>Transfer Account Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer Research-Bone Marrow</td>
<td>085479</td>
<td>050511</td>
<td>61,564.16</td>
</tr>
<tr>
<td>Cancer Research-Microtron</td>
<td>085480</td>
<td>050511</td>
<td>144,299.74</td>
</tr>
<tr>
<td>Golf Course Bridge</td>
<td>085481</td>
<td>016019</td>
<td>27,600.00</td>
</tr>
<tr>
<td>0020 Postle Hall-Project 2707</td>
<td>085484</td>
<td>010000</td>
<td>53,560.00</td>
</tr>
<tr>
<td>Neil-17th/Project 3139</td>
<td>085485</td>
<td>010000</td>
<td>50,000.00</td>
</tr>
<tr>
<td>Project 3934/223 Bio Science</td>
<td>085486</td>
<td>010000</td>
<td>25,223.00</td>
</tr>
<tr>
<td>Project 2939-557/568 Bio Science</td>
<td>085487</td>
<td>010000</td>
<td>27,300.00</td>
</tr>
<tr>
<td>Project 3143-Baker System</td>
<td>085488</td>
<td>010000</td>
<td>33,900.00</td>
</tr>
<tr>
<td>Starling Loving Project 4829</td>
<td>085489</td>
<td>057171</td>
<td>116,300.00</td>
</tr>
<tr>
<td>Project 3108 AR-Parks Hall</td>
<td>085491</td>
<td>010000</td>
<td>144,000.00</td>
</tr>
<tr>
<td>St. John Balcony</td>
<td>085492</td>
<td>016019</td>
<td>283,430.00</td>
</tr>
<tr>
<td>Project 2323 AR-Morrison Tower</td>
<td>085493</td>
<td>017200</td>
<td>90,000.00</td>
</tr>
<tr>
<td>Food Service Consulting</td>
<td>085494</td>
<td>017200</td>
<td>50,347.34</td>
</tr>
<tr>
<td>Project 3156-Animal Science</td>
<td>085495</td>
<td>010000</td>
<td>17,835.00</td>
</tr>
<tr>
<td>Project 2815/210 Mershon Auditorium</td>
<td>085497</td>
<td>010000</td>
<td>90,000.00</td>
</tr>
<tr>
<td>Project 3155AR-Townsend Hall</td>
<td>085498</td>
<td>010000</td>
<td>40,460.00</td>
</tr>
<tr>
<td>Project 3173-Newark Walkway</td>
<td>085499</td>
<td>010971</td>
<td>68,500.00</td>
</tr>
<tr>
<td>Project 3271-Smith Lab</td>
<td>085500</td>
<td>010000</td>
<td>40,490.00</td>
</tr>
<tr>
<td>Mendenhall Renovation</td>
<td>085501</td>
<td>010000</td>
<td>200,000.00</td>
</tr>
<tr>
<td>Project 3258/4138-Smith Lab</td>
<td>085502</td>
<td>010000</td>
<td>118,705.00</td>
</tr>
<tr>
<td>Project 3213/622 Biological Sciences</td>
<td>085503</td>
<td>010000</td>
<td>42,928.00</td>
</tr>
<tr>
<td>Project 3141 AR-Lincoln Tower</td>
<td>085504</td>
<td>010000</td>
<td>90,000.00</td>
</tr>
<tr>
<td>Project 3248/287 Scott Hall</td>
<td>085505</td>
<td>010000</td>
<td>51,090.00</td>
</tr>
<tr>
<td>Project 3153-St John Arena</td>
<td>085510</td>
<td>016019</td>
<td>239,850.00</td>
</tr>
<tr>
<td>Eminent Scholar-Microbiology Project</td>
<td>085515</td>
<td>010000</td>
<td>52,000.00</td>
</tr>
<tr>
<td>Proj 3251-Marion Campus Greenhouse</td>
<td>085516</td>
<td>010956</td>
<td>100,000.00</td>
</tr>
<tr>
<td>Project 3192/AR Sisson Hall</td>
<td>085518</td>
<td>010000</td>
<td>38,870.00</td>
</tr>
</tbody>
</table>

Total Remodeling and Renovation  
\[7,944,956.71\]

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account Number</th>
<th>Transfer Account Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marshon Equipment Reserve</td>
<td>086903</td>
<td>011092</td>
<td>24,494.00</td>
</tr>
<tr>
<td>Admissions-Equipment Reserve</td>
<td>086904</td>
<td>010000</td>
<td>1,560.00</td>
</tr>
<tr>
<td>Business &amp; Admin Equipment Reserve</td>
<td>086905</td>
<td>010000</td>
<td>3,000.00</td>
</tr>
<tr>
<td>University Systems Equipment Resrv</td>
<td>086906</td>
<td>014033</td>
<td>(34,380.50)</td>
</tr>
<tr>
<td>Business Management Equipment Reserve</td>
<td>086907</td>
<td>010000</td>
<td>85,000.00</td>
</tr>
<tr>
<td>Physical Facility Equipment Reserve</td>
<td>086909</td>
<td>010000</td>
<td>(39,132.96)</td>
</tr>
<tr>
<td>Police Equipment Reserve</td>
<td>086910</td>
<td>010000</td>
<td>85,000.00</td>
</tr>
<tr>
<td>Traffic &amp; Parking Equipment Reserve</td>
<td>086911</td>
<td>016007</td>
<td>281,575.00</td>
</tr>
<tr>
<td>Food Facility Equipment Reserve</td>
<td>086912</td>
<td>014006</td>
<td>25,700.00</td>
</tr>
</tbody>
</table>
### Report of Research Contracts, Grants, and Gifts (contd)

**Non-Mandatory Transfers from Current Funds**  
**Fiscal Year 1987-1988**

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account Number</th>
<th>Transfer From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewal and Replacement Funds - Repairs and Replacements - Continued</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stores Equipment Reserve</td>
<td>086913</td>
<td>014001</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Laundry Equipment Reserve</td>
<td>086914</td>
<td>014004</td>
<td>65,000.00</td>
</tr>
<tr>
<td>Equipment Repair Reserve</td>
<td>086915</td>
<td>014003</td>
<td>20,000.00</td>
</tr>
<tr>
<td>Printing Facility Equipment Reserve</td>
<td>086916</td>
<td>014002</td>
<td>200,000.00</td>
</tr>
<tr>
<td>Bookstore Equipment Reserve</td>
<td>086918</td>
<td>016003</td>
<td>300,000.00</td>
</tr>
<tr>
<td>Telephone Equipment Reserve</td>
<td>086919</td>
<td>014007</td>
<td>1,000,000.00</td>
</tr>
<tr>
<td>Physical Facility Reserve</td>
<td>086920</td>
<td>010000</td>
<td>(40,555.00)</td>
</tr>
<tr>
<td>Physical Facility Reserve</td>
<td>086920</td>
<td>057118</td>
<td>(7,017.49)</td>
</tr>
<tr>
<td>Physical Facility Reserve</td>
<td>086920</td>
<td>07137</td>
<td>(7,496.06)</td>
</tr>
<tr>
<td>University Airport Reserve</td>
<td>086921</td>
<td>016014</td>
<td>130,000.00</td>
</tr>
<tr>
<td>Fire Prevention-Equipment Reserve</td>
<td>086923</td>
<td>010000</td>
<td>22,427.00</td>
</tr>
<tr>
<td>HC #1 Equipment Reserve</td>
<td>086924</td>
<td>016101</td>
<td>9,000.00</td>
</tr>
<tr>
<td>HC #2 Equipment Reserve</td>
<td>086925</td>
<td>016102</td>
<td>7,100.00</td>
</tr>
<tr>
<td>University Property Equipment Reserve</td>
<td>086926</td>
<td>016100</td>
<td>6,400.00</td>
</tr>
<tr>
<td>N Campus Apartment Equipment Reserve</td>
<td>086928</td>
<td>016390</td>
<td>2,700.00</td>
</tr>
<tr>
<td>Property Management Equipment Reserve</td>
<td>086929</td>
<td>016015</td>
<td>13,400.00</td>
</tr>
<tr>
<td>Univ. Property Improvement Reserve</td>
<td>086930</td>
<td>016100</td>
<td>16,000.00</td>
</tr>
<tr>
<td>Endowment Property Improvement Reserve</td>
<td>086931</td>
<td>016350</td>
<td>100,000.00</td>
</tr>
<tr>
<td>N Campus Apartment Improvement Reserve</td>
<td>086932</td>
<td>016390</td>
<td>9,400.00</td>
</tr>
<tr>
<td>HC #1 Improvement Reserve</td>
<td>086933</td>
<td>016101</td>
<td>14,500.00</td>
</tr>
<tr>
<td>HC #2 Improvement Reserve</td>
<td>086934</td>
<td>016102</td>
<td>50,400.00</td>
</tr>
<tr>
<td>Bookstore Improvement Reserve</td>
<td>086937</td>
<td>016003</td>
<td>106,000.00</td>
</tr>
<tr>
<td>Telecommunication Equipment Reserve</td>
<td>086938</td>
<td>010000</td>
<td>(56,865.00)</td>
</tr>
<tr>
<td>Telecommunication Equipment Reserve</td>
<td>086938</td>
<td>011064</td>
<td>100,000.00</td>
</tr>
<tr>
<td>Mail Service Equipment Reserve</td>
<td>086941</td>
<td>014027</td>
<td>24,200.00</td>
</tr>
<tr>
<td>Property Management Improvement Reserve</td>
<td>086942</td>
<td>016015</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Stores Improvement Reserve</td>
<td>086943</td>
<td>014001</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Center for Teaching Excellence Reserv</td>
<td>086945</td>
<td>010000</td>
<td>(15,000.00)</td>
</tr>
<tr>
<td>Accounts Payable Equipment Reserve</td>
<td>086954</td>
<td>010030</td>
<td>48,750.00</td>
</tr>
<tr>
<td>Laundry Improvement Reserve</td>
<td>086956</td>
<td>014004</td>
<td>15,000.00</td>
</tr>
<tr>
<td>Printing Facility Improvement Reserv</td>
<td>086957</td>
<td>014002</td>
<td>20,700.00</td>
</tr>
<tr>
<td>Dentistry Equipment Reserve</td>
<td>086961</td>
<td>010000</td>
<td>52,155.00</td>
</tr>
<tr>
<td>Ohio Union-Improvement Reserve</td>
<td>086963</td>
<td>016020</td>
<td>431,481.00</td>
</tr>
<tr>
<td>Transportation Reserve</td>
<td>086964</td>
<td>010000</td>
<td>99,832.82</td>
</tr>
<tr>
<td>NCRVE Equipment Reserve</td>
<td>086967</td>
<td>011077</td>
<td>12,239.88</td>
</tr>
<tr>
<td>Repographics Equipment Reserve</td>
<td>086969</td>
<td>014030</td>
<td>23,800.00</td>
</tr>
<tr>
<td>Public Safety Equipment Reserve</td>
<td>086971</td>
<td>010000</td>
<td>5,830.00</td>
</tr>
<tr>
<td>Air Transport Service Reserve</td>
<td>086976</td>
<td>014029</td>
<td>(225,000.00)</td>
</tr>
<tr>
<td>Univ. Budget Equipment Reserve</td>
<td>086980</td>
<td>010000</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Recreation/Intramural Equip Reserve</td>
<td>086984</td>
<td>010000</td>
<td>47,000.00</td>
</tr>
<tr>
<td>Recreation/Intramural Equip Reserve</td>
<td>086984</td>
<td>011454</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Recreation/Intramural Equip Reserve</td>
<td>086984</td>
<td>011498</td>
<td>4,000.00</td>
</tr>
</tbody>
</table>
**November 4, 1988 meeting, Board of Trustees**

**REREPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**Non-Mandatory Transfers from Current Funds**
**Fiscal Year 1987-1988**

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account Number</th>
<th>Transfer From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Renewal and Replacement Funds - Repairs and Replacements - Continued</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Affairs-Equipment Reserve</td>
<td>086985</td>
<td>010000</td>
<td>57,753.00</td>
</tr>
<tr>
<td>Student Affairs-Equipment Reserve</td>
<td>086985</td>
<td>016020</td>
<td>(10,407.00)</td>
</tr>
<tr>
<td>Cattle Blood Testing</td>
<td>086989</td>
<td>011006</td>
<td>(50,000.00)</td>
</tr>
<tr>
<td>University Systems Equipment Reserve</td>
<td>086990</td>
<td>014033</td>
<td>(130,000.00)</td>
</tr>
<tr>
<td>University College Equipment Reserve</td>
<td>086992</td>
<td>010000</td>
<td>25,000.00</td>
</tr>
<tr>
<td>Univ. Hospital Capital Equipment</td>
<td>086995</td>
<td>010060</td>
<td>(576,892.20)</td>
</tr>
<tr>
<td>Univ. Hospital Capital Equipment</td>
<td>086995</td>
<td>010063</td>
<td>(2,302,798.20)</td>
</tr>
<tr>
<td>Univ. Hospital Capital Equipment</td>
<td>086995</td>
<td>033387</td>
<td>2,200.00</td>
</tr>
<tr>
<td>Univ. Hospital Capital Equipment</td>
<td>086995</td>
<td>050538</td>
<td>(9,823.50)</td>
</tr>
<tr>
<td><strong>Total Repairs and Replacements</strong></td>
<td></td>
<td></td>
<td>$11,777,593.64</td>
</tr>
<tr>
<td><strong>Total Transfers to Retirement of Indebtedness</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bond Redemption - HC #3</td>
<td>087005</td>
<td>017300</td>
<td>67.57</td>
</tr>
<tr>
<td>1985A Bonds Debt Service</td>
<td>087023</td>
<td>010067</td>
<td>5,932.50</td>
</tr>
<tr>
<td>1985B Bonds Debt Service</td>
<td>087024</td>
<td>010060</td>
<td>160,670.82</td>
</tr>
<tr>
<td>1986B Bonds Debt Service</td>
<td>087028</td>
<td>010063</td>
<td>120,634.88</td>
</tr>
<tr>
<td>1986A Bonds Debt Service</td>
<td>087029</td>
<td>010063</td>
<td>23,937.36</td>
</tr>
<tr>
<td><strong>Total Transfers to Retirement of Indebtedness</strong></td>
<td></td>
<td></td>
<td>$311,243.13</td>
</tr>
<tr>
<td><strong>Total Transfers to Plant Funds</strong></td>
<td></td>
<td></td>
<td>$18,153,779.12</td>
</tr>
<tr>
<td><strong>Grand Total Non-Mandatory Transfers From Current Funds</strong></td>
<td></td>
<td></td>
<td>$19,177,218.48</td>
</tr>
</tbody>
</table>
November 4, 1988 meeting, Board of Trustees

REPORT – UNIVERSITY'S INVESTMENT PORTFOLIO
Resolution No. 89-59

RESOLVED, That the report on the University's Investment Portfolio, dated October 21, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

---0---

FIRST QUARTER REPORT – 1988-89 CURRENT FUNDS BUDGET
Resolution No. 89-60

RESOLVED, That the first quarter report on the 1988-89 Current Funds Budget, dated November 4, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

---0---

QUARTER REPORT – WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
Resolution No. 89-61

RESOLVED, That the quarterly report on the Waivers of Competitive Bidding Requirements, dated July through September 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

---0---

President Jennings:

I should recognize -- as you know, Larry Thompson has gone to "Rock and Roll Heaven." I am pleased and delighted that Jim Meeks, former Dean of our Law School and currently a member of the College of Law, has agreed to pick up Larry's duties until we can permanently replace Larry, which we will begin a search for shortly. I think most of you know Jim, but for those of you who don't -- I'm delighted that Jim has agreed to do this. I don't think Jim will become head of Rock and Roll Hall of Fame, but lawyers do strange things.

---0---

Thereupon the Board adjourned to meet Friday, December 2, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  Leonard J. Immke
Secretary  Chairman

316
APPENDIX II

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

December 9, 1988
Commencement Speaker

Austin H. Kiplinger
Doctor of Humane Letters

Austin H. Kiplinger is chairman and president of the Kiplinger Washington Editors, Inc., editor-in-chief of the Kiplinger Washington Letter, and editorial chairman of Changing Times magazine. His publications are renowned for their clarity and reliability; his national reputation is that of an objective and fair journalist and a patron of journalism education and of the arts. With a career that has spanned 50 years as a columnist, broadcast commentator, and editor, he has specialized in business and political affairs. His full-time reporting began in 1940 with the San Francisco Chronicle. After World War II, in which he served as a Navy aviator in the South Pacific, he helped launch Changing Times, a personal finance guide magazine.

In 1948, Kiplinger became the front-page daily columnist of the Chicago Journal of Commerce. During the 1950's, he was a Chicago anchorman and network correspondent for the ABC and NBC television networks. He rejoined the Kiplinger Washington Editors in 1956 as executive editor of the Kiplinger Washington Letter and succeeded his father, W.M. Kiplinger, as editor-in-chief in 1961. He covered presidential and vice-presidential trips and summits throughout Europe, the Soviet Union, and the Middle East between 1959 and 1972.

Kiplinger graduated from Cornell University in 1939 with a bachelor's degree in political science and has served as a trustee at Cornell since 1960. His involvement at Ohio State includes the establishment of the Kiplinger Chair in Public Affairs Reporting in the School of Journalism in 1973. He created the chair in honor of his father, who was one of the first two graduates in journalism at Ohio State.

In addition to his distinguished career as a journalist, he has been a long-time supporter of the arts and is a past president of the National Symphony Orchestra. He has been called a "bulwark" of the arts, and described as "perpetually charming, unhurried, and thoughtful" despite heavy professional and civic responsibilities. Ohio State is grateful for his continuing support and is proud to present him an honorary degree.
Recipients of Honors

Marshall Hall, Jr.
Doctor of Science

Marshall Hall, Jr., is among the most distinguished mathematicians in the world. His work in group theory and combinatorics has been very influential, and his textbooks in those areas have been standard references in their respective fields. His 120 research publications also include well-known work in number theory and projective geometry, and he is considered a pioneer in the use of computers in mathematical research.

Currently a visiting distinguished professor at Emory University, he taught at Ohio State from 1946 to 1959 and played a significant role in building the Department of Mathematics. Since leaving the University, he continues to be an important influence on Ohio State through both research and personal contacts.

He has taught at Yale University, the University of California at Santa Barbara, and the California Institute of Technology, where he was named professor emeritus in 1981. Hall also conducted work at Oxford and Cambridge Universities in Great Britain, as well as at institutions in Israel and India. His present research includes work in the area of codes and designs and the Burnside problem of Group Theory.

Hall's honors include the Henry Fellowship to Trinity College, Cambridge; two Guggenheim Fellowships, the Wilbur Cross Medal from Yale; the IBM Professorship at Cal Tech; membership in the American Academy of Arts and Sciences; and a fellowship in the American Association for the Advancement of Science. He has been a major influence on several generations of young mathematicians and an inspiration for scientists of many disciplines. Ohio State salutes his immense contributions to mathematics.

Ilseodore M. Edse
Distinguished Service Award

For over 30 years, associate professor Ilseodore Edse has shared German language and culture with her students, as well as thousands of people across the state. In addition to her regular teaching responsibilities, she has produced German Language programs on WOSU radio and television since the mid 1950s. Her programs are filled with wit and imagination, always the product of much thought and enthusiasm.

Edse came to the United States from Germany after World War II. She earned her bachelor's, master's, and Ph.D. degrees from Ohio State and was inducted into several honorary societies for outstanding scholarship. She began her broadcast career in 1954 as producer and director of the German Language Series on WOSU-AM Radio. In 1957, she launched a series of German television programs on WOSU-TV and since then has produced and directed over 350 shows.

The broadcast industry, as well as her audiences, applaud her work; her programs have earned awards from the National Institute for Education by Radio-Television and two Emmy nominations from the Columbus Chapter of the National Academy of Television Arts and Sciences.

Edse is also held in high regard for her teaching ability. She was the first woman to win Ohio State's "Teacher of the Year" award, given by the Colleges of Arts and Sciences Student Council.

The West German government has also recognized Edse by awarding her the Bundesverdienstkreuz (Order of Merit) for her service to the community. Ohio State is pleased to honor her for her contributions—both to the University and to the many whose lives she has touched.
Recipients of Honors

John B. Gerlach

Distinguished Service Award

The record-breaking Ohio State University Campaign is fueled by hundreds of dedicated volunteers—and among the most enthusiastic is John B. "Bernie" Gerlach. He has given unstintingly to Ohio State—both of his personal resources and of his time—to support several facets of the Campaign. He has worked to further fund-raising efforts in the Columbus region and for athletics and the College of Business. Under his leadership, the Columbus Campaign, which is part of the overall five-year Campaign, has reached 101 percent of its $135 million goal in just three years.

Gerlach has also guided his own business to great success. He is president, director, and a founder of Lancaster Colony Corporation, which manufactures glassware, plastic housewares, cookware, specialty foods, automotive products, and other items. He has taken the company from a small private business to a highly successful corporation that now generates more than $453 million in annual sales.

In honor of his father, Gerlach established a professorship in accounting and management information science in 1982. He has also supported the University by serving as a consultant in planning business courses.

Gerlach, who attended Ohio State in the late 1940s, is a life member of the Alumni Association, a member of The Presidents Council, and is serving his fourth term on the executive committee of The Presidents Club. In addition, he is a charter member of The Ohio State University Foundation’s Board of Directors. His loyalty and dedication to Ohio State have made him an exceptional model to follow, and we are proud to present him with the Distinguished Service award as an expression of the University's appreciation.

Ruth M. Kessler

Distinguished Service Award

Ruth M. Kessler brings new meaning to the term "self starter." After leaving her successful career as an attorney to spend 23 years raising her children, she took a part-time job in a suburban public library. Twenty-four years later, she has built the Ohio State College of Law Library into one of the finest legal research facilities in the nation.

Kessler, who holds both B.A. and J.D. degrees from Ohio State, began a second career in library work at the College of Law in 1968. She started as head of cataloging and moved on to become assistant director, acting director, and finally, director and professor of law. She retired in June 1987 as a professor emeritus.

Without the advantage of formal library science training, she was forced to acquire her skills on the job. During her nineteen-year tenure at Ohio State, the law library has experienced dramatic change. The collection has swelled to fill all available shelf space, patronage has doubled, and outside use of the resources has increased tremendously. Under Kessler’s guidance, this growth was skillfully managed. She subsequently oversaw the integration of state-of-the-art library technology.

The College of Law Library was one of the first in the country to use the computerized research service LEXIS. Since that time, electronic innovation has dramatically improved library operations—a fact due largely to Kessler's foresight. In addition, her work in building the collection, expanding personnel, and developing technological capacity has laid the foundation for a major expansion of the library in fall 1989. Her contributions will live on to benefit countless future law students. The University is pleased to honor her with the Distinguished Service Award for her invaluable service.
Recipients of Honors

Ruth Weimer Mount
Distinguished Service Award

Ruth Weimer Mount has devoted a lifetime of service to both Ohio State and to the central Ohio community. She came to Ohio State in 1953 as a member of the staff of the Dean of Women. In 1961, she was appointed associate dean of women and director of women’s housing, a position she held until 1967 when she became the University’s first dean of students.

She resigned in 1969 but continued her support of Ohio State through a variety of volunteer roles. Mount served as adviser to the Mortar Board honorary society and has assisted numerous other student groups. She has also organized several alumni programs and activities, served as president of the Board of Trustees of the Friends of the Library, and is currently president of the Board of Directors of the Friends of WOSU.

Mount has compiled a staggering record of community service. Among the organizations she has given time to are the Columbus Symphony Orchestra, the Ohio Theatre, Children’s Hospital, Zonta Club of Columbus, Central Ohio Heart Association, and many others. Her involvement with youth organizations includes service to Buckeye Boys Ranch, the Girl Scouts, Friends in Action, and Columbus Junior Theatre of the Arts.

Her dedication has not gone unnoticed; she has been honored with many awards, such as the Columbus School for Girls Distinguished Contribution Award, the Upper Arlington Rotary Club Service Above Self Award, and the Columbus Junior League Community Service Award. Most recently, she has received the Columbus Mayor’s Award, the Woman of the Year Service Award from the Pilot Club of Columbus, and the YWCA Woman of Achievement Award for Human Services. We are pleased to honor her with the Ohio State Distinguished Service Award and applaud her tireless commitment to serving others.
### The Graduate School

**Dean:** Roy A. Koenigskecht

#### Doctor of Musical Arts

- **John Douglas Fry**, Mansfield, B.M., M.M. (Cleveland Institute of Music); Music Dr. Sylvia Zarrenna

#### Doctor of Philosophy

- **Mahmoud Hamman Abdel-Latif**, Cairo, Egypt; B.F.A., M.F.A. (Helwan University); M.A. (The University of Kansas); Ph.D. (University of Kansas) Dr. George Crepeau
- **Zamel Abbas Aluinizada**, Saudi Arabia; B.A. (King Saud University); M.A. (University of Denver); Communication Dr. Thomas McCann
- **Eve Mayo Adams**, Columbus, B.A. (Ohio Wesleyan University); M.A.; Psychology Dr. Nancy Betz
- **Donggyu Ahn**, South Korea; B.A. (Seoul National University); M.B.A. (Duke University); M.A.; Business Administration Dr. Rod Ajem
- **George Olaleye Akintonde**, Iko, Nigeria; B.A. (Northeastern Illinois University); M.S. (Embry-Riddle Aeronautical University); Education Dr. Aaron Miller
- **Ramblie Osbert Ankumah**, Shama, Ghana; B.S. (Cape Coast University); M.S. (McGill University); Agronomy Dr. W. A. Dick
- **Gilberto Arzatizabal**, Cali, Colombia; B.A. (National University); M.S. (University of Wisconsin at Madison); Agricultural Economics and Rural Sociology Dr. William Finn
- **Harold Wayne Arnett**, St. Joseph, MO; B.S., M.S. (Murray State University); Education Dr. E. Keith Blankenbaker
- **Sunetary Chansup Berlin**, Thailand; B.A. (Ursuline College); M.S. (Kent State University); Chemistry Dr. Derek Horton
- **William Kingsley Berlin**, Columbus, B.S. (Trinity University); Chemistry Dr. Derek Horton
- **Melissa Wells Bizler**, Marion, B.S. (Kent State University); M.A.; Health, Physical Education and Recreation Dr. Mary K. Bayer
- **Jin-Hwan Borm**, Seoul, South Korea; B.S. (Seoul National University); M.S.; Mechanical Engineering Dr. C. H. Meng

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree and Institutions</th>
<th>Field</th>
<th>Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rebecca Jane Boyd</td>
<td>Bluefield, WV; B.S. (Bluefield State Teacher's College); M.A.; Education</td>
<td></td>
<td>Dr. Anthony Olincock, Dr. Otto Santos</td>
</tr>
<tr>
<td>Andrew Michael Calabrese</td>
<td>Columbus, B.A. (Denison University); M.A.; Communication</td>
<td></td>
<td>Dr. Brenda Dervin</td>
</tr>
<tr>
<td>Nicholas W. Calderone</td>
<td>Columbus, B.A.; B.S., M.S.; Entomology</td>
<td></td>
<td>Dr. David L. Demling</td>
</tr>
<tr>
<td>John Richard Carruthers</td>
<td>Canai Winchester; B.A. (Park College); M.S. (Central Michigan University); Education</td>
<td></td>
<td>Dr. William Deuling</td>
</tr>
<tr>
<td>Celso De Castra Filho</td>
<td>Londrina, Brazil; B.S. (ESALQ-Piraciclor); M.S.; Agronomy</td>
<td></td>
<td>Dr. Terry Logan</td>
</tr>
<tr>
<td>Tai-Wai David Chan</td>
<td>Hong Kong; B.A. (The International Christian University); M.S.; Chemical Engineering</td>
<td></td>
<td>Dr. J. L. Lee</td>
</tr>
<tr>
<td>Kanjana Chansa-ngavej</td>
<td>Bangkok, Thailand; B.Sc. (The University of Tasmania); M.Sc. (The University of New South Wales); Botany</td>
<td></td>
<td>Dr. V. Raghavan</td>
</tr>
<tr>
<td>Hong-Chei Chen</td>
<td>Taipei, Taiwan; R.O.C.; B.S. (National Taiwan University); Chemistry</td>
<td></td>
<td>Dr. Hsien Floss</td>
</tr>
<tr>
<td>Hsiu-Ho Chen</td>
<td>Taipei, Taiwan; R.O.C.; B.S. (Taipei Medical College); M.S. (National Defense Medical Center); Pharmacy</td>
<td></td>
<td>Dr. Robert W. Bruggemier</td>
</tr>
<tr>
<td>Kan Chen</td>
<td>Shouning, P.R.C.; B.S. (University of Science and Technology of China); Physics</td>
<td></td>
<td>Dr. C. Jayaprakash</td>
</tr>
<tr>
<td>Yun-Shiou Chen</td>
<td>Taipei, Taiwan; R.O.C.; B.S. (National Tsing-Hua University); Statistics</td>
<td></td>
<td>Dr. Douglas Wolfe</td>
</tr>
<tr>
<td>Margaret Lee Clark</td>
<td>Reno, NV; B.A. (University of the Pacific); M.A. (University of San Diego); Political Science</td>
<td>Dr. Chadwick F. Alger</td>
<td></td>
</tr>
<tr>
<td>Arthur M. Cohn</td>
<td>Dayton; B.A. (Queen's College); M.S.W. (New York University); Social Work</td>
<td></td>
<td>Dr. Beverly Toomey</td>
</tr>
<tr>
<td>Debra S. Cohn</td>
<td>Muscatine, IA; B.A. (Drake University); M.S.W. (Washington University); Social Work</td>
<td></td>
<td>Dr. Keith M. Kilty</td>
</tr>
<tr>
<td>Roy Baker Crawford</td>
<td>Matawan, NJ; B.S.Ed.; M.A.; Health, Physical Education and Recreation</td>
<td></td>
<td>Dr. R. Corey Bates</td>
</tr>
</tbody>
</table>

#### Steven Jay Cuvelier, Grove City; B.S. (Iowa State University); M.A. (The University of Iowa); Sociology Dr. Simon Dwatt

- **Peter Charles Diaz**, Miami, FL; A.B. (The University of Miami); M.S. (Nova University); Education Dr. David L. Boggs

- **Thomas Scott Dicke**, Defiance, B.S.Ed. (Bowling Green State University); M.A.; History Dr. Manuel Blackford

- **Barbara Maria Doerr**, Dayton; B.S. (Xavier University); M.S. (Wright State University); M.S.; Psychology Dr. J. A. Grawe

- **Theodore Nicolas Dracopoulos**, Athens, Greece; B.S. (Embry-Riddle Aeronautical University); M.S. (The University of Michigan); Aeronautical and Astronautical Engineering Dr. Hayrunt Oz

- **Patrick William Dunne**, Toronto, Ontario, Canada; B.A.; M.A. (York University); M.S.; Microbiology Dr. B. Oakley

- **Gülbin M. Dural**, Ankara, Turkey; B.S.; M.S. (Middle East Technical University); Electrical Engineering Dr. D. L. Meyjatt

- **Godwin Chukwumene Duru**, Nigeria; B.A. (University of Dallas); M.A. (Morgan State University); Agricultural Economics and Rural Sociology Dr. Martin F. Kenney

- **Francis Oluyemi Eguarode**, Bendel, Nigeria; B.A.(Hons) (University of Ile); M.A. (University of South Carolina, Columbia); Art Education Dr. Kenneth A. Maranta

- **Margaret Mary Elgas**, Columbus; B.A. (Lewis University); M.Ed. (University of Illinois); Home Economics Dr. Rebecca Kantor

- **Cheryl Anita Evans**, Columbus; B.A. (Fish University); M.A.; Psychology Dr. Feliciana C. Seraphic

- **Yeh-Dar Fan**, Taipei, Taiwan; R.O.C.; B.S. (National Taiwan University); M.S.; Chemical Engineering Dr. L. James Lee

- **Marcia B. Fear-Fenn**, Youngstown; B.A.; M.S. (Youngstown State University); Education Dr. Susan Janet Sears

- **Gail Eileen Foreman**, Columbus, SC; B.S. (The University of South Carolina); Zoology Dr. Thomas J. Crabb
Patricia Gay Fornash, Hyden, KY; B.A. (Georgetown College); M.S. (University of Kentucky); Vocational Education, Comprehensive Program
Dr. Devey A. Adams

Robert Peter Flynn, England; B.S. (Southampton University, U.K.); M.S. (National College of Agricultural Engineering, U.K.); Agricultural Engineering
Dr. Warren L. Roller

John Matthew Ginder, Galion, B.S. (Kent State University); B.S., M.P.A.; Sociology
Dr. A. J. Epstein

Mark William Glogowski, Mansfield; B.A. (Case Western Reserve University); Chemistry
Dr. Daryl H. Busch

William Richard Goe, Akron; B.A., M.A. (Marshall University); Agricultural Economics and Rural Sociology
Dr. Martin Kenney

Jane Karen Gray, Perrysburg, B.S., M.P.A.; Sociology
Dr. Simon Dinitz

Scott Sinclair Grigsby, Rivervale, NJ; B.A. (Lycoming College); Biophysics
Dr. Carl R. Ingling, Jr.

Peter Michael Haas, Columbus; B.S., M.S.; Physics
Dr. Harris Kagan

Marylin Kgomoce Habedi, Manzini, Swaziland; B.S., M.Ed. (Tuskegee Institute); Health, Physical Education and Recreation
Dr. Sharon S. Redick

Karl Edward Hackenbrack, Harrisburg, PA; B.S. (Davis and Elkins College); M.B.A. (Shippensburg University); Accounting and Management Information Systems
Dr. Andrew Bailey

Michael Robert Hamerski, Columbus; B.S. (The University of Mississippi); M.S.; Entomology
Dr. Richard W. Hall

Silva Hrant Hanianian, Memphis, TN; B.S. (Memphis State University); Pharmacology
Dr. Gopi A. Tejparu

Glenda Marie Hanna, Edmonton, Alberta, Canada; B.P.E.; M.A. (University of Alberta); Health, Physical Education and Recreation
Dr. Charles Mand

Shangyou Hao, Columbus; B.S. (Wuhan Institute of Hydraulic and Electrical Engineering); M.S.; Electrical Engineering
Dr. Ali Keyhani

Cynthia Conner Hickenbottom, Woodfield; B.S.Cer.E.; Ceramic Engineering
Dr. Dennis W. Bradly

Khai Leong Ho, Malaysia; B.A. (National University of Malaysia); M.A. (Western Michigan University); Political Science
Dr. William Liddle

Gordon Randolph Holcomb, Worthington; B.S.M.E.; M.S.; Metallurgical Engineering
Dr. George S. Pierre

Gabriele Ulrike Hoover, West Germany; B.A. (University of Louisville); M.A.; German
Dr. Hugo Webb

Brian Thomas Huber, Medina; B.S. (University of Akron); M.S.; Geology and Mineralogy
Dr. Peter N. Webb

David William Hunter, Cleveland; B.A. (Hiram College); M.A.; Health, Physical Education and Recreation
Dr. Robert L. Bartels

Susan E. Inglis, Ontario, Canada; B.P.E.; M.A. (University of Alberta); Health, Physical Education and Recreation
Dr. Robert L. Mand

Rebecca Hazard Inkrott, Dover; B.S. (Miami University); M.A. (Bowling Green State University); Home Economics
Dr. Barbara Newman

Magna Moriam James, Columbus; B.A. (Oakwood College); M.A.; Psychology
Dr. Samuel Osipov

Rongher Jean, Nan-Tou, Taiwan, R.O.C.; B.S. (Tsing Hua University); M.S.; Chemical Engineering
Dr. Liang-Shih Fan

James Elijah Jenkins, New York City, NY; B.A. (Saint Lawrence University); Health, Physical Education and Recreation
Dr. Robert L. Hitterman

Shingwhu Jha, Yung-Ho, Taiwan, R.O.C.; B.S. (National-Chi University); M.S.; Mathematics
Dr. Paul Neus

Julia Gamble Kahrl, Columbus; B.A. (Radcliffe College); M.A.; Education
Dr. William D. Dowling

Warren P. Kreisel, Onalaska, WI; B.Sc. (University of Wisconsin at River Falls); M.Sc. (Virginia Polytechnic Institute); Agricultural Economics and Rural Sociology
Dr. Alan Randell

Cengiz Osman Kunt, Istanbul, Turkey; B.S.M.E. (Bogazici University); M.S.; Mechanical Engineering
Dr. Rejendra Singh

Ann Phyllis Kwiatkowski, Maumee; B.S. (Kent State University); OSU Biochemistry Program
Dr. Marita King

Jay Sanford Lampel, Columbus; B.S. (Michigan State University); M.S.; Microbiology
Dr. William R. Strohl

Vincent Elliott Lastik, Cleveland; B.A. (Case Western Reserve University); M.A.; Education
Dr. Keith Hall

Dennis Richard Latea, Youngstown; B.S.; M.S. (Youngstown State University); Health, Physical Education and Recreation
Dr. Seymour Kleinman

Bao-Shiang P. Lee, Fei-Ing-Shang, Taiwan, R.O.C.; B.S. (Chinese Culture University); M.S. (National Taiwan University); Chemistry
Dr. Prober K. Dutta

Sun-Young Won Lee, Lima, B.A., M.F.A. (Ewha Woman's University); M.F.A. (Pratt Institute); Art Education
Dr. Artur Elsford

Ayad Lemberou, Morocco; B.A. (Mohamed V. Rabat); Post Graduate Diploma (Edinburgh, Scotland); M.Ed. (Leicester University); Vocational Education, Comprehensive Program
Dr. Dewey A. Adams

Ying-Hong Li, Beijing, P.R.C.; B.Sc. (Peking University); B.S.; Physics
Dr. Tin-Lun Ho

William Michael Loffredo, Columbus; B.S. (Lebanon Valley College); Chemistry
Dr. Ming-Daw Tsai

Christopher Allen Long, Worthington; B.S.M.E.; M.S.; Metallurgical Engineering
Dr. John Hirth

Maurie Joe Luettkemeier, West Lafayette, IN; B.S., M.A. (Ball State University); Health, Physical Education and Recreation
Dr. David Lamb

Aref Maaie, Sfax, Tunisia; B.S.M.E.; M.S.; Mechanical Engineering
Dr. Dennis Guenther

Daniel Hugh Macdonald, Moncton, Canada; B.P.E. (University of New Brunswick); M.P.E. (Springfield College); Health, Physical Education and Recreation
Dr. Charles L. Mand

Kathleen Baasler Martin, Silver Spring, MD; B.A. (Loyola University); M.A.; Psychology
Dr. Pamela Highfill

Jerome Vernon Martin, Valley City, ND; B.S. (United States Air Force Academy); M.S. (Troy State University); History
Dr. Allan R. Millett

Bruce Edward McCutcheon, Carbondale, IL; B.A. (William & Mary College); M.A.; Health, Physical Education and Recreation
Dr. Charles Mand
Susan Langston Turner, Columbus: B.S. (University of Kansas); M.S.: Anatomy
Dr. Martha Sucheston
Valerie A. Ubbes, Geneva, IL; B.S. (Appalachian State University); M.Ed. (The University of Toledo); Health, Physical Education and Recreation
Dr. Mary Beyrer
Hanumantha Rao Unnava, Hyderabad, India; B.Tech. (Jawaharlal Nehru Technical University); M.B.A. (Indian Institute of Management); Business Administration
Dr. Robert Burnkrant
Riitta Marjatta Vallima-Bhum, Helsinki, Finland; B.A., M.A. (Michigan State University); Linguistics
Dr. Arnold Zachry
Fusun Gurgen Varol, Istanbul, Turkey; M.D. (Istanbul Medicine School); M.S.: Pharmacology
Dr. Norton H. Neff
Victor Anthony Vinci, Canton, B.S. (Bowling Green State University); M.S.: Microbiology
Dr. William R. Strohl
David Howard Wahl, Williamsville, NY; B.S. (Cornell University); M.S. (Virginia Polytechnic Institute); Zoology
Dr. Ray Stein
Dorothy Katherine Wamsley, Portsmouth, B.A. (Ohio University); M.A.; Education
Dr. Maria Pank Mertz
Wannaporn Wichienwong, Bangkok, Thailand; B.Ed., M.Ed. (Chulalongkorn University); Education
Dr. James W. Altschuld
Jane Marie Wiechel, Columbus: B.S. (Kent State University); M.Ed. (Bowling Green State University); Education
Dr. Thomas M. Stephens
Valerie L. Wilson, Circleville; B.A. (Miami University); M.A.; Education
Dr. Gay Su Pinnell
Ramasinghe Wimalaratna, Rannawela, Matara, Sri Lanka; B.S. (The University of Colombo); M.S. (Ohio University); M.S. Mathematics
Dr. William J. Davis
Michael Wiaanay, Ashtabula; B.A. (Wittenberg University); M.A.; M.S. (Mankato State University); Health, Physical Education and Recreation
Dr. Seymour Kleinman
Sheila P. Wolfe, Chico, CA; B.A. (Welesley College); M.A.; History of Art
Dr. Franklin M. Ludden
Ruey-Ju Julia Yang, Shippensburg, PA; B.A. (Tamkang University); M.S. (Illinois State University); Education
Dr. James Wrigl
Murray Arnold Young, Canada; B.A. (Bethei College); M.S. (Indiana University); M.A. (Asbury Theological Society); Business Administration
Dr. Peter Dickson
Deborah Lee Zechar, Dayton; B.A. (Ohio Northern University); M.S. (University of Dayton); M.A.; Health, Physical Education and Recreation
Dr. Seymour Kleinman
Zheng-Sheng Zhang, Xianjhang, P.R.C.; B.A. (Beijing Teacher's College); M.A.; Linguistics
Dr. Arnold Zachry
Fulin Zuo, P.R.C.; B.S. (Nanjing Institute of Technology); M.S.; Physics
Dr. Arthur Epsten

Master of Applied Statistics
Taweew S. Johnson, Zordee, Liberia; B.S. (University of Liberia); Statistics
Brian Morton Lanning, Greenup, KY; B.S. (Eastern Kentucky University); Statistics
Yih-Wen Evelyn Tang, Taipei, Taiwan, R.O.C.; B.A. (National Chung-Hsing University); Statistics
Stephen Richard Wissiewski, Glenhaw, PA; B.S. (The Pennsylvania State University); Statistics

Master of Architecture
David Lawson Adams, Delray Beach, FL; B.A. Arch. (The University of Florida); Architecture
Bradley Charles Bubp, Fort Recovery; B.Ed. (Miami University); Architecture
Susan Gene Daulton, Columbus; B.S. Arch.; Architecture
David Edward Kropp, Columbus; B.A. (North Carolina State University at Raleigh); Architecture

Master of Arts
Birgit Jansen Alexander, Lancaster; B.A. (The University of Florida); German
Zoheir Ali-Dib, Damascus, Syrian Arab Republic; B.A. (University of Michigan); Romance Languages and Literatures
Alisa Pearl Anthony, Cedar Rapids, IA; B.A. (The Colorado College); English
Maria Gallardo de Anzotaegui, San Marcos, Nicaragua; A.A (Los Angeles City College); B.A. (University of California at Los Angeles); Art Education
Cynthia Ann Applin, Columbus; B.A. (Central State University); Education

Robert David Aron, Columbus; B.A. (University of Iowa); M.A. (University of Chicago); M.B.A. (Illinois Institute of Technology); Education

Dyrek Michael Ashton, Perrysburg, B.F.A.; Photography and Cinema

Terri Toemer Barbush, Hamilton; B.S. (Miami University); Education

Donna Williams Barrett, Worthington; B.S. (Bluefield State College); Education

Andrea Saura Beltran, Barcelona, Spain; B.S., M.A. (University of Mallorca); Romance Languages and Literatures

Gayle Susan Bickle, Columbus; B.A. (Wittenberg University); Sociology

Patricia Louise Biler, Columbus; B.A. (Kent State University); English

Sharon Bracci Blinn, Columbus; B.A. (Wayne State University); Communication

Elizabeth Marie Brockman, Mt. Pleasant, MI; B.A. (Michigan State University); English

Linda Beth Brown, Carroll; B.A. (Morehead University); Education

Krickett Dianne Bucy, Mason; B.A. (University of Cincinnati); Business Administration

Thomas Buergger, Frankfurt, West Germany; Diplom (Hochschule fuer Gestaltung); Industrial Design

Paul Joseph Burke, Waterloo, NY; B.A. (State University of New York at Binghamton); Geography

G. Wilson Burrows, Laguna Hills, CA; B.A. (Stanford University); B.F.A. (San Francisco Art Institute); Art Education

Ratimaya Sinha Bhusan, India; B.A. (Michigan State University); Anthropology

Mary Jo Carnot, Kaukauna, WI; B.S. (Carroll College); Psychology

Kathryn J. Carter, Columbus; B.S.Ed.; Education

Michael Paul Casey, Rocky River; B.A.; Journalism

Yu-Hwa Sophia Chang, Columbus; B.A. (Tunghai University); Education

Eunbong Choi, Seoul, South Korea; B.A., M.A. (Ewha Women's University); Political Science

Judith Ann Clark, Reynoldsburg; B.S.Ed.; Romance Languages and Literatures

Debra Marie Colbert, Orland Park, IL; B.S.Ed.; Health, Physical Education and Recreation

Jennifer Ann Coleman, Houston, TX; B.S. (The University of Texas at Austin); Health, Physical Education and Recreation

Susan Jane Conrad, Lancaster; B.S. (Baldwin-Wallace College); Public Administration

Carol Cruickshank, Columbus; B.Art.Ed.; Art Education

Stephanie Stephens Crum, West Jefferson, B.M. (Miami University); Music

Xiang-ling Dai, Jiang Su, P.R.C.; B.A. (Nanjing Institute of Meterology); M.A. (Syracuse University); Linguistics

James Cecil Daniels, Columbus; B.S. (Ohio University); Photography and Cinema

Scott Alan Davison, Columbus; B.A.; Philosophy

Fu-shou Deng, Taipei, Taiwan, R.O.C.; B.A. (National Chung-Hsing University); M.A. (National Taiwan University); Economics

Casaa Huva’Ny Digby, Sweden; B.A.; English

Sandra Noll Dinan, Zanesville; B.S.Ed.; Health, Physical Education and Recreation

Cheryl Conrad Dobroka, Marysville; B.A.; English

Linda Elaine Doll, Columbus; B.S. (Ohio University); Education

James C. Dowell, Gahanna; B.S. (Ohio State University); Public Administration

Katherine Johnson Dyer, Montchanin, DE; B.A.; English

Susan Lynn Eisenmann, LaGrange; B.S.Ed.; Health, Physical Education and Recreation

Maria Ansley Elliott, London; B.A.Ed. (Wright State University); Education

Tricia Maurne Emerson, Westerville; B.A. (Cedarville College); Education

Robert K. Evans, Columbus; B.S.Ed.; Education

Rosemary Julea Faire, Sydney, Australia; B.Sc., Ph.D. (Macarquie University); Health, Physical Education and Recreation

Cheri Miller Farmer, Stoutsville; B.S. (Ohio University); Education

Louis C. Flocken, Worthington; B.S.Ed.; Public Administration

Robin Allan Flumerfelt, Ontario, Canada; B.A. (University of Western Ontario); Health, Physical Education and Recreation

Raymond Michael Foeller, Columbus; B.A.; Education

Amy Ellsworth Frecker, Columbus; B.S.Ed. (Miami University); Education

Allan Mark Friedman, Columbus; B.A. (State University of New York at Stony Brook); Psychology

Patricia L. Gagne, Fredericktown; B.A. (Ohio University); Sociology

Pamela Lynn Gallagher, Worthington; B.S.Ed.; Education

Martin Paul Galosi, Cincinnati; B.A. (Miami University); Health, Physical Education and Recreation

Douglas C. Gardner, Dublin; B.B.A. (Southern Methodist University); Health, Physical Education and Recreation

Lori Ann Garovich, Columbus; B.A. (Youngstown State University); Sociology

Shawn Sherman Garrett, Columbus; B.S.Ed.; Education

Margaret Clark Graham, Chilhowie, VA; B.S.N. (The University of Virginia); M.S.N. (Vanderbilt University); Health, Physical Education and Recreation

Lisa Lucille Grenier, Worthington; B.A.; Education

Cheryl Ann Griffiths, Lakeview; B.S.H.E.; Education

Martha Stone Grondin, Grandview Heights; B.S.Ed. (Kent State University); Education

David Stanton Guion, Lititz, PA; B.S. (The Pennsylvania State University); Art Education

Veronica Gonzales Haverick, Columbus; B.S. (Los Angeles State University); Health, Physical Education and Recreation

Georgette Goldberg Haydu, Columbus; B.A.; Anthropology

Elizabeth Haywood-Niller, Columbus; B.A. (State University of New York at Binghamton); Psychology

Louisa Jayne Hext, London, England; B.A. (University of Liverpool); Sociology

Anne Elizabeth Hill, Charleston, WV; B.S. (West Virginia University); M.A.; Political Science

Paul Eric Hooge, Newark; B.A., B.S.Ed.; Art Education

Kathryn Anne Hovis, Indiana, PA; B.A. (Munkingum College); Journalism

John Alex Hritz, Marion; B.Mus.Ed. (Otterbein College); Education

Michael Derrick Hudson, Fort Wayne, IN; B.A. (Indiana University); Journalism

Rose M. Hume, Columbus; B.S. (Bowling Green State University); Journalism

Ru-Woan Kathy Hwang, Taipei, Taiwan, R.O.C.; B.A. (Chinese Culture University); Photography and Cinema

Dysney J. Hwang, Columbus; B.A. (Miami University); Education
Nobuko Imai, Takaban, Japan; B.A. (Keio University); M.A., Anthropology

Dorothy Ann Jackson, Columbus; B.S.Ed.; Health, Physical Education and Recreation

Chanjuan Jeon, South Korea; Bachelor's (Gang-Won National University); Certificate (Seoul National University); Education

Ho Won Jeong, Busan, South Korea; B.A. (Hankuk University of Foreign Studies); Political Science

Raida Johan, Riau, Indonesia; B.A. (U.N.R.t.), Satjana (K.J.P.), Liiu, Bogota, Colombia; B.A. (Universidad La Gran Colombia); Romance Languages and Literatures

Lana Darlene Jolley, Boiling Springs, NC; B.A. (Wake Forest University); Music

Elisabeth Anne Keller, Columbus; B.A. (Brandeis University); Education

Michele Rolene Kent, Columbus; B.S. (Loyola University of Chicago); B.A. (Franklin Pierce College); Psychology

Cynthia Jeanne Kipker, Bellefontaine; B.Mus.Ed.; Music

Robert C. Kirk, Jr., Bexley; B.S. (DePauw University); Education

Constantine Ioannis Kontogiophreos, Limassol, Cyprus; B.S.E.E.; Education

William E.N. Kop, Columbus; B.S. (Ohio University); Education

Lisa Anne Kreischer, Columbus; B.S. (The University of Dayton); Education

Susan Michelle Kisel, Columbus; B.S.Ed.; Education

Shigekazu Kuribayashi, Kyoto, Japan; B.A. (Doshisha University); East Asian Languages and Literatures

Anne Dolores LaDuke, North Grafton, MA; B.S. (Bridgewater State College); Health, Physical Education and Recreation

Mary Lynn Saul Lawrence, Worthington; B.S.Ed.; Education

William Lockary Lawson, Columbus; B.A.; Education

David Eugene Lepley, New Carlisle; B.Mus.Ed. (Capital University); Music

Kathryn Moore Limes, Marysville; B.A. (The University of Northern Iowa); Education

Rex Allen Littrell, Maple Heights; B.A. (John Carroll University); Public Administration

Fang-Lin Lu, Taipei, Taiwan, R.O.C.; B.M. (National Taiwan Normal University); Music

Sharmini Jayaratnam Luther, Sri Lanka; B.A. (Sweet Briar College); Communication

Hector Enrique Marcayda, New York City, NY; B.A. (Hunter College); History

Curtis George Marion, Columbus; B.A. (Cleveland State University); Psychology

Paul Edward Marshall, Sandusky; B.A.; History

Caroline June Martin, Newark; B.A. (Ohio Dominican College); Journalism

Venita Marie Martin, Memphis, TN; B.A. (Lake Forest College); Political Science

Regina Hartmann Maur, Worthington; B.S.Ed.; Education

Mary Connell McCormick, Marion; B.S.; Psychology

Martha McFerran, Muskegon, MI; B.A. (Kalamazoo College); Education

Joan Elizabeth McLean, Columbus; B.A. (The University of Florida); Political Science

Nubia Constantia Melo, Bogota, Colombia; B.A. (Universidad La Gran Colombia); Romance Languages and Literatures

Jeffrey Allen Mesko, Akron; H.A.B. (Cleveland State University); Classics

Ronald R. Meyer, Euclid; B.S. (Bowling Green State University); Education

Victoria Lynn Michalik, Sandusky; B.A. (Capital University); Education

Karl Varlan Mielke, Antwerp; B.A. (Concordia Teachers College); Education

Carol Wilbas Morris, Granville; B.A. (The University of Missouri); Education

Blithe Ann Munns, Topeka, KS; B.A. (Trinity University); Journalism

Thomas Richard Murrell, Columbus; B.A.; English

Mwakoloka Rosa Ndeyapo, Okatanjange, Namibia; B.Sc. (Kansai University); Education

Donna Lue Newman, Columbus; Cert.Dent.Hyg., B.S.Ed.; Health, Physical Education and Recreation

Sesan Oseni, Abeokuta, Nigeria; B.A.; Health, Physical Education and Recreation

Crystal Jean Owens, Mt. Vernon; B.A. (Mount Vernon Nazarene College); Education

Pragna Devendrabhai Patel, Baroda, Gujarat, India; B.S. (University of Baroda); Education

Linda Jean Pearson, Westerville; B.A.; (California State University at Fullerton); Education

Cynthia Ann Perkins, Columbus; B.S.Ed.; Education

Michael Howard Plouck, Bryan; B.S.Ed.; Public Administration

Yanto Sidik Pratiknyo, Keblama, Jakarta, Indonesia; B.Sc. (Gajahmada University); Business Administration

Helen Elizabeth Prien, Springfield, VA; B.F.A. (George Mason University); Theatre

Jae Sung Pyun, Pyungtaek, South Korea; B.A. (Han-Kuk University of Foreign Studies); Political Science

Judith Ann Quillen, Columbus; B.S.Ed. (Ohio University); Education

Deborah Carey Ramage, Columbus; B.F.A.; Art Education

Charles Albert Reger, Toledo; B.S. (Xavier University); M.A. (The University of Cincinnati); Speech and Hearing Science

Peter Roas, Columbus; M.A. (University of Augsburg); German

Norman John Roberts, Columbus; B.S.; Education

Alice Rosen, Melville, NY; B.F.A. (Carnegie-Mellon University); Art Education

Ann Ruth Rottenman, Richmond, KY; B.A. (University of Kentucky); Education

Linda Edith Rulman, Defiance; B.A.; Classics

James Allen Scarff, Delaware; B.A. (Ohio Wesleyan University); English

Melissa Jo Simpkins, Columbus; B.S.; Education

Quentin Bernard Sinclair, Pasco, WA; B.A. (North Carolina Central University); Photography and Cinema

Sharon A. Rinkliff Stanley, Circleville; B.S.N. (University of Maryland); M.S. (Wright State University); Health, Physical Education and Recreation

Phillip B. Stone, Columbus; B.S. (Kent State University); M.B.A. (The University of Southern California); Business Administration

Toni Lynelle Strand, Denver, CO; B.A. (Bethany College); Psychology

Li-Yun Stephanie Sun, Tainan, Taiwan, R.O.C.; B.A. (Tunghai University); Education

Warren Edwards Sweeterer, IV, Virginia Beach, VA; B.S. (University of North Carolina at Chapel Hill); Health/Physical Education and Recreation

Yanfong Tang, Shijiazhuang, Hebei, P.R.C.; B.A. (Hebei Teacher's College); East Asian Languages and Literatures
Jean-Claude Bruno Teboul, France: Licenciatura (Universidade do Minho); Communication

Mattie Thomas, Columbus; B.S.Ed.; Education

Lauraine Helen Titus, Cape Town, Union of South Africa; B.A., Political Science

Zwelakhe Tshandu, Johannesburg, Union of South Africa; B.A., B.A.(Hons) (University of the Witwatersrand); Sociology

Howard Joseph Van Rumer, Sandusky; B.A. (Trenton State College); Education

Julie Lee Wagars-Bleak, Dublin; B.A.; Education

Esther R. Wang, Toledo; B.M. (The University of Toledo); Music

Suzanne Louise Wells, Delaware; B.A. (Ohio Wesleyan University); Education

Joan Potter Williams, Columbus; B.S.Agr.; Psychology

Joyce Ellen Williams, Columbus; B.A. (The Pennsylvania State University); Art Education

Pamela Michelle Williams, Capital Heights, MD; B.S. (Lincoln University); Health, Physical Education and Recreation

Stephen John Winslow, Columbus; B.S Ed.; Education

Susan Carol Yost, Newark; B.A.; Communication

Master of Business Administration

Ron-Chang Liu, Taiwan, R.O.C.; B.A. (Taiwan University); Business Administration

Master of City and Regional Planning

Ranjit Varkki George, Alwasy, India; B.Arch(Hons) (Indian Institute of Technology); City and Regional Planning

Dianne Chandler Harris, Amherst; B.S.; City and Regional Planning

Nader M. Humein, Cairo, Egypt; B.Sc. (Cairo University); City and Regional Planning

Junmo Kang, Seoul, South Korea; B.A. (Hong-Ik University); City and Regional Planning

G. Loren Kravig, Columbus; B.A.; City and Regional Planning

Kevin Douglas Might, Canfield; B.S.Land.Arch.; City and Regional Planning

John Morris Stamn, Westerville; B.Philosophy (Miami University); City and Regional Planning

Christopher Thaddeus Wojno, Columbus; B.A. (Michigan State University); City and Regional Planning

Master of Fine Arts

Lesley Anne Hall, Terre Haute, IN; B.F.A., Art

Tracee Jo Hein, Columbus; B.F.A., Art

Dale Robert Marsh, Elyria; B.A. (Kenyon College); M.S.; Art

Andrew Fitzgerald Scott, Brooklyn NY; B.F.A. (Long Island University); Art

Donald Robert Welty, Everett, WA; B.A. (Central Washington University); Art

Master of Health Administration

Amy Byers Shannon, Worthington, B.S.N. (The University of Pennsylvania); Hospital and Health Services Administration

Master of Labor and Human Resources

Mary Elizabeth Abei, Galena; B.A. (Ohio Dominican University); Labor and Human Resources

Anne Murnane Arena, Galloway; B.A.; Labor and Human Resources

James Craig Brant, Bartlett; B.Bus.Adm. (Ohio University); Labor and Human Resources

Diana Faye Mallin, Lima; B.A. (Miami University); Labor and Human Resources

Deborah Pisko Mosko, Worthington; B.S.Ed.; Labor and Human Resources

Linda Jane Wunderley, Cincinnati; B.S.Bus.Adm., M.B.A. (Pennsylvania State University); Labor and Human Resources

Master of Liberal Studies

James Robert Reske, Parma; B.A., M.A.; Liberal Studies

Master of Music

Daia Marie Dixon, Milford, PA; B.M. (Lebanon Valley College); Music

John Franklin Link, Lincoln, NE; B.A., B.M. (University of Nebraska); Music

Fang Lin Lu, Taipei, Taiwan, R.O.C.; B.M. (National Taiwan Normal University); Music

Jeffrey Kenneth Olson, Muskego, WI; B.M. (University of Wisconsin at Madison); Music

Master of Public Administration

Roger Anthony Hess, Columbus, B.S., M.B.A., D.D.S. (Emory University); Public Administration

Master of Science

Panayota Agouris, Athens, Greece; Diploma (National Technical University); Geodetic Science and Surveying

Najam Akhter, Columbus; B.S.E.E. (The University of Mississippi); Electrical Engineering

Ibraheem Abdulrahman Al-Sheddy, Alkarj, Saudi Arabia; B.S. (King Saud University); Food Science and Nutrition

Brian Charles Alsdorf, Wooster; B.S.Nat.Res.; Natural Resources

John Christopher Anderson, Westerville; B.S. (Miami University); Computer and Information Science

Spring Iris Atwater, Columbus; B.Tech. (DeVry Institute of Technology); Computer and Information Science

Joseph V. Bachman, Sardinia; B.S.Phar., Pharmacy

Daniel R. Balser, Burton; B.S.Nat.Res.; Natural Resources

Deborah Kay Barrow, Adrian, MI; B.S. (Colorado State University); Home Economics

Abdulla Mohammed Bataineh, Jordan; B.S.E.E. (Yarmouk University); Electrical Engineering

Susan Diane Bell, Worthington; B.S.Nurs.; Nursing

Virendra Shantilal Bhakta, Orna, Gujarat, India; B.S. (Sardar Patel University); Civil Engineering

Margaret Lambert Bickling, Columbus; B.A. (State University of New York at Buffalo); Chemistry

Leonard Paul Black, Randolph; B.S.Nat.Res.; Natural Resources

Douglas Paul Bliss, Columbus; B.S.E.E. (University of Toledo); Electrical Engineering

James Edward Best, Columbus; B.S. (Carnegie-Mellon University); Statistics

Jean Jules Botomogno, Yaounde, Cameroon; Ingenieur Agronomie (École Nationale Superieure Agronomique); Agricultural Economics and Rural Sociology

Alan John Brown, Gahanna; B.S.; Computer and Information Science
Manish Gupta, New Delhi, India; B.Tech. (Indian Institute of Technology); Computer and Information Science

Sanjay Gupta, Columbus, B.Tech. (Indian Institute of Technology); Computer and Information Science

John Thomas Hamilton, Columbus, B.S. (The United States Military Academy); B.A., M.A. (Oxford University); Mathematics

Cheryl Maddux Hamon, Worthington; B.S.A.L.Hh.Prof.; Allied Medical Professions

Robert Glen Hancock, Sombuuff, NE; B.A. (Hastings College); Entomology

Bradley Alan Hartlaub, Hanover, PA; B.A. (Millersville University); Statistics

Heath Alan Hattfield, Franklin, B.A. (Capital University); Chemistry

Bin He, Shihezi, P.R.C.; B.S. (Shihezi Agricultural College); Certificate (Jilin University of Technology); Agricultural Engineering

Steven Charles Heinrich, Mentor; B.S.E.E.; Electrical Engineering

Juliana Heist, Alexandria; B.S.H.E.; Home Economics

Pei-Jing Perry Ho, Kao-Hsiung, Taiwan, R.O.C.; B.S. (Chung-Yuan Christian College); Bio-Medical Engineering

Holly A. Hollerman, Dublin; B.S. (Saint Joseph College); Computer and Information Science

Richard Chris Holy, Fort Wayne, IN; B.S. (Purdue University); Agriculture

Kay Ann Honaker, Alliance; B.S.Agr.; Agricultural Education

Naomi Lynn Hummel, Bismarck, ND; B.S. (University of North Dakota); Pathology

Nakhlé Elie Hussein, Beirut, Lebanon; B.S. (University of Dayton); Bio-Medical Engineering

Yakni Idris, Palembang, Indonesia; B.S.C.E. (The University of Sriwijaya); Civil Engineering

Hannu Tapani Iivonen, Tampere, Finland; B.S. (Tampere University of Technology); Mechanical Engineering

Jaasme Jaafar, Temerloh, Pahang, Malaysia; Diploma (Mara Institute of Technology); Geodetic Science and Surveying

Beth Louise Jenkins, Columbus; B.S.M.E.; Mechanical Engineering

Claudia Josefinaria Jerez, Santiago, Dominican Republic; B.S. (University Católica Madre-Maestra); Agricultural Economics and Rural Sociology

Dale Alan Jeschke, Columbus, B.S. (University of Illinois); Agricultural Economics and Rural Sociology

Michael Bryan Jones, La Habra, CA; B.S. (Brigham Young University); Geology and Mineralogy

Shin Sub Jung, Seoul, South Korea; B.S. (Sung Kyun Kwan University); Mechanical Engineering

Kimberly Kay Kaufman, St. Louis, MO; B.S. (Southwest Missouri State University); Geodetic Science and Surveying

James Robert Kent, Zanesville; B.S.E.E.; Computer and Information Science

Hyun Soo Kim, Seoul, South Korea; B.A. (Sung Kyun Kwan University); Industrial and Systems Engineering

Young Man Kim, South Korea; B.A. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); Computer and Information Science

Jon Bradford Kimmich, Columbus; B.S. (Indiana University of Pennsylvania); Computer and Information Science

William Kevin Koenig, Ironton, B.S. (The University of Kentucky); Computer and Information Science

John Frederick Kolen, San Diego, CA; B.A. (The University of California at San Diego); Computer and Information Science

Werner Krandk, Bonn, West Germany; M.S. (Unisversität Freiburg); Computer and Information Science

Ming-Ling Kuo, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Medical Microbiology and Immunology

Mohamed Faouzi Labidi, Tozeur, Tunisia; B.S.C.E.; Engineering Mechanics

Craig Anthony Langenfeld, St. Louis, MO; B.S. (University of Dayton); Mechanical Engineering

Jaw-Tsong Lee, Taiwan, R.O.C.; B.S. (National Chung-Hsing University); Animal Science

Yu-Lien Li, Pakistan; B.S. (Kinnaird College for Women); M.B.B.S. (Fatima Jinah Medical College); Preventive Medicine

Nancy Beth Lyon, Ramsey, NJ; B.S. (Virginia Polytechnic Institute and State University); Civil Engineering

Walter Thomas MacRae, Pickerington; B.S. (The Pennsylvania State University); Nuclear Engineering

Elizabeth Ann Madigan, Warakoneeta; B.S.N. (Wright State University); Nursing

Kok You Mak, Ipoh, Malaysia; B.S.C.E.; Civil Engineering

Amy Lee Marchio, Worthington; B.S.Food Sc.; Food Science and Nutrition

Gary Scott Martin, Dublin; B.S. (LeTourneau College); Welding Engineering

Judy L. Martin, Dresden; B.S.H.E.; Home Economics

Janet Guendelsberger Mazza, Marietta, GA; B.S.Al.Hh.Prof.; Allied Medical Professions

Patricia D. McConnell, Zanesville; B.S.H.E.; Home Economics

John Daniel McElroy, Cincinnati; B.S.C.I.S.; Computer and Information Science

Bulent Ahmet Mehmetli, Ankara, Turkey; B.S. (Middle East Technical University); Mechanical Engineering

Douglas Eugene Melson, Columbus; B.S. (Wichita State University); Electrical Engineering

David Michael Miller, Lancaster; B.S.Met E.; Metallurgical Engineering

Kenneth Duane Miller, Hillaard; B.S.Ed.; Mathematics

Christopher Louis Mills, Olmsted Falls; B.S.E.E.; Electrical Engineering

Mark Thomas Morgan, Valley City; B.S.Agr.E.; Agricultural Engineering

Karen Hannelore Morgan, Wolfsburg, West Germany; Vordiplom (Phillips Universität); M.S.; Computer and Information Science

William Dean Morse, Marysville, B.S.E. (Wright State University); Electrical Engineering

Joseph Paul Meyer, Reynoldsburg, B.S. (University of Cincinnati); Computer and Information Science

Vasu deva S. Murthy, Bangalore, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

Prabjot Nanao, India, B.Tech. (Indian Institute of Technology); Mechanical Engineering

Amy Elizabeth Neal, Kenton; B.S.Phar.; Pharmacy

Phillip Carl Neese, Westerville; B.S.C.I.S.; Welding Engineering

Barbara L. Nicol, Marysville; B.S.H.E.; Home Economics

Desmond Finbarr Nolan, Cork, Ireland; B.S. (University College of Cork); Agricultural Economics and Rural Sociology

Barbara Lynn Nunley, St. Albans, WV; B.S.N. (West Virginia University); Nursing

John Edward Ogden, Whitehall; B.A., B.S.; Mathematics
Ali Tayfun Ozkan, Ankara, Turkey; B.S. (Middle East Technical University); M.S.; Chemical Engineering

Judith Marie Packman, St. Louis, MO; B.S. (Wheaton College); Geodetic Science and Surveying

Marco Tulio Padilla, San Mateo Alajuela, Costa Rica; D.D.S. (Universidad de Costa Rica); Dentistry

Todd Michael Penkowski, Mentor; B.S.E.E.; Electrical Engineering

Leslie Cay Phillips, Blacklick; B.S.Nat.Res.; Natural Resources

Janet Chandler Pickford, Fredericktown, B.S.; Agricultural Education

Sagy Panduk-Mintz, Shaker Heights; B.S.; Computer and Information Science

J. Ramachandran, Bangalore, India; B.Tech. (Indian Institute of Technology); Computer and Information Science

Francisco Aristides Ramirez-Aybar, Santo Domingo, Dominican Republic; Lic. Economia (Universidad Autonoma de Santo Domingo); Agricultural Economics and Rural Sociology

Chaya Somasekhara Rao, Bombay, Maharashtra, India; B.S. (University of Texas at Austin); Home Economics

Joseph Re, Jr., Shrub Oak; B.A. (Cornell University); Computer and Information Science

Daniel Martin Retz, Columbus; B.S. (Andrews University); Chemistry

Nancy Lynn Rhynard, Hilliard; B.A. (Otterbein College); Animal Science

Steven Lane Richardson, Lawrence, KS; B.S., M.D. (University of Kansas); Preventive Medicine

Janet Marie Schilk, Lewiston, NY; B.S. (University of Miami); Chemistry

Robert William Schmidley, Columbus; B.S. (Trinity College); Geodetic Science and Surveying

Mark Odell Scott, Baltimore, MD; B.S. (Brigham Young University); B.S. (University of Maryland at College Park); Biomedical Engineering

Ramon Randolph Grey Solove, Shephardstown, WV; B.S. (George Mason University); Zoology

Cindy Chia-Sheng Sergent, Dublin, B.A. (Tu-Fen University); Computer and Information Science

Keith Edward Shafer, Marion; B.A. (Mount Vernon Nazarene College); Computer and Information Science

Deborah Ann Shands, Columbus; B.S. (The University of Minnesota); Computer and Information Science

Alan Lee Shank, Aurora, IL; B.S. (Illinois State University); Agricultural Economics and Rural Sociology

Vicki Lee Sharzer, Nashport; A.A. (Ohio University at Zanesville); Nursing

Asish Kumar Sinha, Asansol, India, B.S. ( Jadavpur University); M.S. (Indian Institute of Science); Metallurgical Engineering

Thomas Edward Skelly, Jr., Silver Spring, MD; B.S. (University of Maryland); Geodetic Science and Surveying

Bruce Loring Smith, Cincinnati; B.S. (University of Cincinnati); M.S. (Eastern Washington University); Geodetic Science and Surveying

Robin L. Smith, Grove City; B.S.Ed.; Natural Resources

Melinda Joyce Springfield, Riceville, TN; B.S. (West Georgia College); Geology and Mineralogy

Sidgata V. Sreenivasan, Bangalore, Karnataka, India; B.Eng. (Bharathidasan University); Mechanical Engineering

Thomas David Stafo, Columbus; B.S.E.E.; Electrical Engineering

Jeffrey Steven Stapleton, Erlanger, KY; B.S. (Xavier University) Nuclear Engineering

Anthony Stefanidis, Athens, Greece; Diploma (National Technical University); Geodetic Science and Surveying

Lalith Ganapathi Subramanian, Madras, India; B.E. (Regional Engineering College); Mechanical Engineering

Chih-Cheng Sun, Taiwan, ROC; B.S. M.E. (Feng Chia University); M.S.M.E. (South Dakota School of Mines and Technology); Welding Engineering

Albert J. Sutherland, Toledo; B.S. (Oregon State University); Horticulture

Gary Albert Theil, Dublin; B.S.Agr.; Agricultural Education

Javier Trevino, Monterrey, Mexico; B.S., M.S. (I.T.E.S.M.); Electrical Engineering

Ko Tsen, Taipei, Taiwan, ROC; B.S. (Taipei Medical College); Pharmacy

Nora Michelle Wallace, New Concord; B.A. (Otterbein College); Chemistry

Liguo Wang, Beijing, P.R.C.; B.S., M.S. (Tsinghua University); Welding Engineering

Jeffrey Alan Ward, Alexandria, KY; B.A., B.S. (Northern Kentucky University); M.S.; Computer and Information Science

Melena Sue Whittington, Rushylvania; B.S.Agr.; Agricultural Education

Laura Kimberly Wilkinson, Chippewa Lake, B.S.Nurs. (Kent State University); Nursing

Ian Thomas Williams, Reston, VA; B.S. (College of William and Mary); Preventive Medicine

Francine Donovan Winter, Columbus; B.S. (Duke University); Preventive Medicine

Kurt Alan Wright, Columbus; B.S.; Veterinary Pathology

Pamela Ainsley Wright, Bracebridge, Ontario, Canada; Bachelor's, B.S. (Lakehead University); Natural Resources

Ruth Schroeder Yerardi, Chillicothe; B.S.Nurs.; Nursing

Janice Kaye Yount, Shelbyville, KY; B.A. (Western Kentucky University); Computer and Information Science

Bruce Paul Zimmer, Marietta; B.S.Agr.; Agricultural Education

Sara Louise Zimmerman, Columbus; B.S.N. (Goshen College); Nursing

Master of Social Work

Peggy Lynne Cartwright, Worthington; B.S.Soc.Wel.; Social Work

Timothy Yi Ling, Dayton; B.S. (Wright State University); Social Work

Michele Denise Milic, Canton; B.S. (Kentucky Christian College); Social Work
Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts

College of Biological Sciences
College of Humanities
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

Dean: Donald Harris

Bachelor of Arts

Joy-Marie Nwakaeo Abulokwe, Port-
Harcourt, Nigeria
Erin Ann Ackoe, Cincinnati
Stephen Akio Fugikawa, Toledo
Leslie Ann Hammond, Grove City
Timothy Lee Henthorne, Westerville
Kurt Allen McNew, Mansfield
Kevin S. O'Brien, Worthington
Julie Roseanne Palmquist, Medina
Judith Rentel, Columbus
David Andrew Setterlin, Columbus
Craig Steven Smithberger, Columbus
Karen Elizabeth Weiss, Youngstown

Dean: William A. Jensen

Bachelor of Science

Nicole Lee Angel, Houston, LA
David L. Armstrong, Jr., Veninales
Carolyn Dawn Bohmer, Tipp City
Daniel John Cleary, Niles
Joseph Edward Curran, Westerville
Lisa Marie DiPinto, Cleveland
Michael Francis Fuoko, Canton
Molly Ann Gire, Coldwater
Michael Andrew Grouse, Cincinnati
Mary Elizabeth Horne, Bluffton
Jill Stephanie Hutson, Columbus
Suan Yuni Jihayama, Parma
Kent Allen Joseph, Zanesville
Stephanie Elaine Miller, Grove City
Sean Douglas Mulnix, Hudson
James Louis Murphy IV, Upper Arlington
Patricia Ann Ortiz, Cincinnati
Stephanie Jo Ott, Circleville
Troy Myron Palmer, Zanesville
Carolyn Marie Sekerak, Berea
Constance Marie Wahl, Bel Air, MD

Dean: G. Michael Riley

Bachelor of Music

David J. Friedlander, Cleveland
Daniel Paul May, Columbus

Bachelor of Art Education

Sandra Hughes Aska, Columbus

Bachelor of Art Education

Stanley Bruce Cain II, Mansfield
Saundra Lynn Myers, Columbus
Brenda Ciccone Steller, Columbus
Julie Ann Trecchia, Worthington
Theresa Ann Troy, Columbus

Bachelor of Music Education

Patricia Anne Del Ciello, Columbus
Emile Dawn Weller, Grove City

Dean: C. William Kern

College of Mathematical and Physical Sciences

William Kerr Gibson, Columbus
Christopher John Haumann, Mansfield
Suzanne Marie Holm, Dublin
Kenneth Nicholas Jaryga, Orange Village
Pauline Rae Kan, Mogadore
Annette Lai-Kuan Lam, Kuala Lumpur, Malaysia
Angela Vyette Ortiz, Buffalo, NY

Bachelor of Arts

Madeleine Spencer Acton, Bexley
Doris Ann Atkine, Cincinnati

Offered by the College of the Arts
Offered by the College of the Arts and the College of Education

332
**Bachelor of Science**

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Kenneth Acker, Columbia</td>
<td></td>
</tr>
<tr>
<td>Dylan Eugene Barrett, Columbus</td>
<td></td>
</tr>
<tr>
<td>Ralph Edward Bentley, Plantation, FL</td>
<td></td>
</tr>
<tr>
<td>Cheryl Ann Bihn, Perryburg</td>
<td></td>
</tr>
<tr>
<td>Brian John Carroll, Toledo</td>
<td></td>
</tr>
<tr>
<td>Richard James Eliot, Columbus</td>
<td></td>
</tr>
<tr>
<td>John Mark Gutman, Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Joseph Anthony Mamone, Cleveland</td>
<td></td>
</tr>
<tr>
<td>Mark Christian McClure, Bexley</td>
<td></td>
</tr>
<tr>
<td>Raymond Robert Moreno, Columbus</td>
<td></td>
</tr>
<tr>
<td>James Gerard Palte, Glandorf</td>
<td></td>
</tr>
<tr>
<td>Joel F. Salas, Lorain</td>
<td></td>
</tr>
<tr>
<td>Barbara Lynn Schummer, Columbus</td>
<td></td>
</tr>
<tr>
<td>Michael David Storer, Burke, VA</td>
<td></td>
</tr>
<tr>
<td>Bruce Matthew Tuttle, Fredericton</td>
<td></td>
</tr>
<tr>
<td>William Paul Wallace, Olmsted Falls</td>
<td></td>
</tr>
<tr>
<td>Jason Wendelin Weisgerber, Worthington</td>
<td></td>
</tr>
<tr>
<td>Kerri Sherwood Whitl, Columbus</td>
<td></td>
</tr>
<tr>
<td>James Ray Wirtley, Seven Mile</td>
<td></td>
</tr>
</tbody>
</table>

**College of Social and Behavioral Sciences**

Dean: Joan Huber

**Bachelor of Arts**

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alicia Neville Akin, Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Sven Erik Anderson, Columbus</td>
<td></td>
</tr>
<tr>
<td>Timothy Scott Anderson, Meeker</td>
<td></td>
</tr>
<tr>
<td>Leslie Carol Ayers, Paris, KY</td>
<td></td>
</tr>
<tr>
<td>David Alan Baas, Columbus</td>
<td></td>
</tr>
<tr>
<td>Julie Marie Baris, Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Ellen Prine Barney, Hillsboro</td>
<td></td>
</tr>
<tr>
<td>Ian Carter Bates, Gates Mills</td>
<td></td>
</tr>
<tr>
<td>Michael Joseph Beuh, Marion</td>
<td></td>
</tr>
<tr>
<td>Patricia Susan Benkowski, Worthington</td>
<td></td>
</tr>
<tr>
<td>Mary Catherine Betts, Columbus</td>
<td></td>
</tr>
<tr>
<td>Paul Gilles Binette, Columbus</td>
<td></td>
</tr>
<tr>
<td>Christopher Joseph Boeger, Columbus</td>
<td></td>
</tr>
<tr>
<td>Amy Lynn Bowling, Heath</td>
<td></td>
</tr>
<tr>
<td>David Lawrence Brall, Bainbridge</td>
<td></td>
</tr>
<tr>
<td>Michele Rae Broucss, Youngstown</td>
<td></td>
</tr>
<tr>
<td>Tammy Renee Brooks, Ashland</td>
<td></td>
</tr>
<tr>
<td>Greg S. Brown, Tipp City</td>
<td></td>
</tr>
<tr>
<td>Jeffrey John Burke, Brookpark</td>
<td></td>
</tr>
<tr>
<td>Susan Diane Capalio, Bedford</td>
<td></td>
</tr>
<tr>
<td>Leanne Marie Carter, St. Paul, MN</td>
<td></td>
</tr>
<tr>
<td>Craig Alan Chubb, Findlay</td>
<td></td>
</tr>
<tr>
<td>John Carroll Cleek, Columbus</td>
<td></td>
</tr>
<tr>
<td>Jennifer L. Clement, Worthington</td>
<td></td>
</tr>
<tr>
<td>John Stuart Cohen, Columbus</td>
<td></td>
</tr>
<tr>
<td>Manhall Dean Cohen, Columbus</td>
<td></td>
</tr>
<tr>
<td>Kathleen Mary Cohill, Columbus</td>
<td></td>
</tr>
<tr>
<td>Cynthia Sue Conn, Pataskia</td>
<td></td>
</tr>
<tr>
<td>Brenna Timothy Connair, Kettering</td>
<td></td>
</tr>
<tr>
<td>John Michael Couri, Columbus</td>
<td></td>
</tr>
<tr>
<td>Coleen Lynn Day, Berea</td>
<td></td>
</tr>
<tr>
<td>Kim Anne Dennis, Defiance</td>
<td></td>
</tr>
<tr>
<td>Brian Allen Donley, Austintown</td>
<td></td>
</tr>
<tr>
<td>Stephen Michael Dott, Mentor</td>
<td></td>
</tr>
<tr>
<td>Renea Elaine Dowdy, Columbus</td>
<td></td>
</tr>
<tr>
<td>Sherry Jean Duda, St. Clairsville</td>
<td></td>
</tr>
<tr>
<td>Stephen Anthony Duftett, Shaker Heights</td>
<td></td>
</tr>
<tr>
<td>Carl Raymond Dumke, Fairborn</td>
<td></td>
</tr>
<tr>
<td>Samuel Elison, Toledo</td>
<td></td>
</tr>
<tr>
<td>Todd Michael Evans, Upper Arlington</td>
<td></td>
</tr>
<tr>
<td>Cheryl Lynn Fogley, Marion</td>
<td></td>
</tr>
<tr>
<td>Jeffrey James Ferguson, Chagrin Falls</td>
<td></td>
</tr>
<tr>
<td>Kevin P. Foley, Youngstown</td>
<td></td>
</tr>
<tr>
<td>Anthony Luke Jackson, Elkins</td>
<td></td>
</tr>
<tr>
<td>Matthew Howard Frantz, Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Debra Therese Freathy, Columbus</td>
<td></td>
</tr>
<tr>
<td>Judith Elaine Freppon, Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Joanne Krepsey Kay, Columbus</td>
<td></td>
</tr>
<tr>
<td>Angela Fung, Hong Kong</td>
<td></td>
</tr>
<tr>
<td>Lori Lynn George, Mount Vernon</td>
<td></td>
</tr>
<tr>
<td>Valerie Lynn Granich, Akron</td>
<td></td>
</tr>
<tr>
<td>Robert Patrick Greer, Columbus</td>
<td></td>
</tr>
<tr>
<td>Michele Lynn Hackett, Columbus</td>
<td></td>
</tr>
<tr>
<td>Tracey JoAnne Hall, Cleveland Heights</td>
<td></td>
</tr>
<tr>
<td>John Philip Hamilton, Jr., Westerville</td>
<td></td>
</tr>
<tr>
<td>Lori Kathleen Hamilton, Canal Fulton</td>
<td></td>
</tr>
<tr>
<td>Timothy Joseph Hayden, Whitefish Bay, Wi</td>
<td></td>
</tr>
<tr>
<td>Christopher Scott Hedrick, Columbus</td>
<td></td>
</tr>
<tr>
<td>Paula Jean Higgins, Columbus</td>
<td></td>
</tr>
<tr>
<td>Craig Reese Hildreth, Grove City</td>
<td></td>
</tr>
<tr>
<td>Steven Thomas Hill, Heath</td>
<td></td>
</tr>
<tr>
<td>Linda Ellen Hilsheimer, Rittman</td>
<td></td>
</tr>
<tr>
<td>Mark L. Honaker, Warren</td>
<td></td>
</tr>
<tr>
<td>Andrew Lawrence Hureck, Columbus</td>
<td></td>
</tr>
<tr>
<td>Todd Allen Hunter, Columbus</td>
<td></td>
</tr>
<tr>
<td>Julie Anne Hurd, Kent</td>
<td></td>
</tr>
<tr>
<td>Marianne Hyland, Worthington</td>
<td></td>
</tr>
<tr>
<td>Brandon Stuart Jacko, Shaker Heights</td>
<td></td>
</tr>
<tr>
<td>Jay Brennan Johnson, Macedonia</td>
<td></td>
</tr>
<tr>
<td>Tamara Lynn Jones, Worthington</td>
<td></td>
</tr>
<tr>
<td>Stephen Anthony Jun, Toledo</td>
<td></td>
</tr>
<tr>
<td>Michael Michael Kaufman, Belleville</td>
<td></td>
</tr>
<tr>
<td>Michael Thomas Kearney, Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Sallie Ann Keith, Youngstown</td>
<td></td>
</tr>
<tr>
<td>Paul David Kelley, Medina</td>
<td></td>
</tr>
<tr>
<td>John Jeffrey Kifer, Westerville</td>
<td></td>
</tr>
<tr>
<td>Thomas Joseph King, Upper Arlington</td>
<td></td>
</tr>
<tr>
<td>Anna M. Koldys, New Orleans, LA</td>
<td></td>
</tr>
<tr>
<td>Katherine Ann Knizowski, Barberton</td>
<td></td>
</tr>
<tr>
<td>Hans Charles Kunzel, Avon Lake</td>
<td></td>
</tr>
<tr>
<td>Bonnie Jean Ladina, Mentor</td>
<td></td>
</tr>
<tr>
<td>Kenneth Martin Lauro, Louisville</td>
<td></td>
</tr>
<tr>
<td>Lauri Ann Laurita, Lima</td>
<td></td>
</tr>
<tr>
<td>SueEllen Lisaak, Oxford, CT</td>
<td></td>
</tr>
<tr>
<td>Andrea Kay Lindsay, Miamisburg</td>
<td></td>
</tr>
<tr>
<td>Thomas Andrew Lorenz, Upper Arlington</td>
<td></td>
</tr>
<tr>
<td>Constance Sue Louthen, Reynoldsburg</td>
<td></td>
</tr>
<tr>
<td>Karen Irene Mantelli, Jefferson</td>
<td></td>
</tr>
<tr>
<td>Teresa Ann Masseo, Upper Arlington</td>
<td></td>
</tr>
<tr>
<td>Jeffrey Michael Matthews, Columbus</td>
<td></td>
</tr>
<tr>
<td>James Richard Maynard, Wooster</td>
<td></td>
</tr>
<tr>
<td>Kenneth Brooke McConnell, Lockport, IL</td>
<td></td>
</tr>
<tr>
<td>John Lee McDaniel, Jr., Cincinnati</td>
<td></td>
</tr>
<tr>
<td>Terry Ellen McMullen, Hilliard</td>
<td></td>
</tr>
<tr>
<td>Michele L&amp;McPeters, Hubbard</td>
<td></td>
</tr>
<tr>
<td>Michele Ann Melian, Grandview Heights</td>
<td></td>
</tr>
<tr>
<td>Sean Allen Michalski, Pepper Pike</td>
<td></td>
</tr>
<tr>
<td>Anthony Bryant-Thomas Milburn,</td>
<td></td>
</tr>
<tr>
<td>Mary Christine Montenaro, Columbus</td>
<td></td>
</tr>
<tr>
<td>Marc Montgomery Moody, Newark</td>
<td></td>
</tr>
<tr>
<td>Deborah Jean Morford, Williamsfield</td>
<td></td>
</tr>
<tr>
<td>Lance Allworth Morrison, Hubbard</td>
<td></td>
</tr>
<tr>
<td>Gwynn Eric Mosher, Richwood</td>
<td></td>
</tr>
<tr>
<td>Cigarette Moskovitz, Bexley</td>
<td></td>
</tr>
<tr>
<td>Yolanda Joanna Natal, Lorain</td>
<td></td>
</tr>
<tr>
<td>Troy Allen Nelson, West Chester</td>
<td></td>
</tr>
<tr>
<td>Michele L. Oravec, Westerville</td>
<td></td>
</tr>
<tr>
<td>Andrew Steven Palka, Columbus</td>
<td></td>
</tr>
<tr>
<td>Jeffrey Michael Palmer, Upper Arlington</td>
<td></td>
</tr>
<tr>
<td>Cynthia Ann Palur, Northfield</td>
<td></td>
</tr>
<tr>
<td>Johnna Marie Pasalingqua, Tallmadge</td>
<td></td>
</tr>
<tr>
<td>Marlene Beth Pavlovsky, Dayton</td>
<td></td>
</tr>
<tr>
<td>Kenneth Lewis Payne, Columbus</td>
<td></td>
</tr>
<tr>
<td>Lloyd Lawrence Pfahler II, North Olmsted</td>
<td></td>
</tr>
<tr>
<td>Brian Scott Pfeffer, Ripley</td>
<td></td>
</tr>
<tr>
<td>Jodi Ann Pinney, Lima</td>
<td></td>
</tr>
<tr>
<td>Amy Elizabeth Potton, Columbus</td>
<td></td>
</tr>
<tr>
<td>Gwendolyn Mae Quimby, Waterford</td>
<td></td>
</tr>
<tr>
<td>Janice Ann Rehak, West Lafayette</td>
<td></td>
</tr>
<tr>
<td>Lisa Marie Rhee, Columbus</td>
<td></td>
</tr>
<tr>
<td>Sarah Theresan, Bexley, Worthington</td>
<td></td>
</tr>
<tr>
<td>Lauren Norris Roark, Plain Dealing, LA</td>
<td></td>
</tr>
<tr>
<td>James Scott Rodney, Lawrenceville, NJ</td>
<td></td>
</tr>
<tr>
<td>Dawn Marie Rogier, Rising Sun</td>
<td></td>
</tr>
<tr>
<td>Terri Lynn Rillins, Columbus</td>
<td></td>
</tr>
<tr>
<td>David Michael Rose, Columbus</td>
<td></td>
</tr>
<tr>
<td>Anthony Joseph Rovolo, Jr., Cinn., NY</td>
<td></td>
</tr>
<tr>
<td>Mary Colleen Ryan, Westerville</td>
<td></td>
</tr>
<tr>
<td>Sarah Hart Ryan, Willoughby</td>
<td></td>
</tr>
<tr>
<td>Jessica Leigh Salyers, Powell</td>
<td></td>
</tr>
<tr>
<td>Sheila Ann Santoro, Solon</td>
<td></td>
</tr>
<tr>
<td>Sherry Ann Schaler, Worthington</td>
<td></td>
</tr>
<tr>
<td>Karen Lynn Schrader, Barberton</td>
<td></td>
</tr>
<tr>
<td>Karin Schroth, Middletown</td>
<td></td>
</tr>
<tr>
<td>Penny Lynn Schultz, Delaware</td>
<td></td>
</tr>
<tr>
<td>David Scot Seech, Columbus</td>
<td></td>
</tr>
<tr>
<td>Jeffrey Alan Shapiro, Cleveland</td>
<td></td>
</tr>
<tr>
<td>Jane Ann Slepavy, Eastlake</td>
<td></td>
</tr>
<tr>
<td>Joseph Dean Short, Archbold</td>
<td></td>
</tr>
<tr>
<td>Cathleen Marie Sikora, Mentor</td>
<td></td>
</tr>
<tr>
<td>Richard Jay Stillman, Columbus</td>
<td></td>
</tr>
<tr>
<td>Mary Ellen Simmons, Westerville</td>
<td></td>
</tr>
<tr>
<td>Peter Joseph Slyman, Springfield</td>
<td></td>
</tr>
<tr>
<td>Nancy Ann Smole-Dunham, Wadsworth</td>
<td></td>
</tr>
<tr>
<td>Tiffany Ann Speir, Columbus</td>
<td></td>
</tr>
<tr>
<td>Sandra R. Stout, Marion</td>
<td></td>
</tr>
<tr>
<td>David Allen Strause, Upper Arlington</td>
<td></td>
</tr>
<tr>
<td>Kelly Page Strickling, Dublin</td>
<td></td>
</tr>
<tr>
<td>Jill Anne Stueve, Dayton</td>
<td></td>
</tr>
<tr>
<td>Susan Jeanne Swatz, Batavia, NV</td>
<td></td>
</tr>
<tr>
<td>Susan Marie Tiberi, Dublin</td>
<td></td>
</tr>
<tr>
<td>Michael John Trudeau, Columbus</td>
<td></td>
</tr>
<tr>
<td>Stephen Bruce Tyson, Columbus</td>
<td></td>
</tr>
<tr>
<td>Michael Dean Vanecko, Columbus</td>
<td></td>
</tr>
<tr>
<td>Timothy Lee Villies, Steubenville</td>
<td></td>
</tr>
<tr>
<td>Christopher John Vogt, Canton</td>
<td></td>
</tr>
<tr>
<td>George Gregory Wagner, Middletown</td>
<td></td>
</tr>
<tr>
<td>Jean M. Weiser, Columbus</td>
<td></td>
</tr>
<tr>
<td>Scott H. Weisman, Columbus</td>
<td></td>
</tr>
<tr>
<td>Nancy Jean Williams, Niles</td>
<td></td>
</tr>
<tr>
<td>Tracy Randall Williams, Columbus</td>
<td></td>
</tr>
<tr>
<td>Lynne Ann Wilson, East Liverpool</td>
<td></td>
</tr>
<tr>
<td>Matthew Warren Wirth, Columbus</td>
<td></td>
</tr>
<tr>
<td>David Gerard Zadnik, Columbus</td>
<td></td>
</tr>
<tr>
<td>Robert Gerald Zamy, Jr., Struthers</td>
<td></td>
</tr>
</tbody>
</table>

333
Bachelor of Science

Steven Michael Baskerville, Goose Creek, SC
Angela Bianco, Worthington
John Scott Bowshier, Mt. Sterling
Daniel Duane Buckey, Byesville
Timothy Alan Graham, Findlay
Deanne Rae Hart, Richmond, VA
Gary Michael Hutchinson, Solon
Truman Gest Johnson, Urbana
Robert L. Baker Killinger, Uniontown, PA
Lisa Marlene Koski, Huron
David Alan Kraemer, Columbus
Karol Elaine Massey, Grove City
Karen Marie Katalinas, Bedford Heights
Dawn Michele Parker, Champion
John A. Savolainen, Sylvania
Christie Gail Smith, Worthington
John Stephen Wolfenberger, Tuscula, IL

School of Journalism

Bachelor of Arts in Journalism

Karis Lynn Andrews, Chillicothe
Spine E. Le, Warren
Scott Michael Bayne, Columbus
Karen Kimberly Bird, Highland Heights
Barbara L. Bohmer, Canton
John Robert Borsos, Upper Arlington
Leslie Ann Braun, Columbus
LeRoy Dennis Bray, Omaha, NE
Tamara Barbara Brunetti, Warren
Katherine Ellen Busch, Columbus
Brian Joseph Calamita, Mayfield Heights
Douglas Stuart Carter, Berea
Douglas Ray Claygett, Beaufort, WA
Nicole Canitt Daniels, Dayton
Karen Sue Davis, Columbus
Thomas Anthony Diederich III, Kettering
Megan Marie Donahue, Westerville
Julie Janine Ellis, Monroe
Jill Marie Emerson, Bucyrus
Walter Berchman Fraher III, Columbus
Allen Wayne Fruth, Tiffin
David Lee George, Columbus
Paul Andrew Gitter, West Hempstead, NY
Stacy A. Glass, Pickerington
Michael D. Gorman, Columbus
Eric Ray Guenther, West
Coles E. Hatcher, Bucyrus
Rebecca Rae Heisell, Columbus
Richard Matthew Hopkins, Dayton
Dana Lynn Hurt, Ashland
Randall Scott Jacobs, Mansfield
Janine Diane Jefferson, Columbus
Scott Anthony Jun, Toledo
Denise Kim Kastelic, Bedford Heights
Karen Marie Katalinas, Cleveland
Tamara Lee Kaufman, Worthington
Jon Michael King, Springfield
Karen Christine King, Steubenville

Bachelor of Science in Agriculture

Stephen Doug Kisor, Reynoldsburg
Betsy Kristin Lee, Beavercreek
Elizabeth Anne Lee, Columbus
Howard Steven Lerman, Williamsville, NY
Lynne Marie Machovina, North Ridgeville
Sandra Ursula Matarrese, Upper Arlington
Andrea Dawn McClaren, Galion
Jennifer Elizabeth McIlvaine, Southport, CT
Kelli L. Newman, Kenton
Ann-Maria Noland, Wilmington
Timothy Neil O'Donnell, Grove City
James Anthony Palermo, Youngstown
Monica Ann Palermo, Pickerington
Laura Jean Reed, Canton
Melanie Ann Rose, Columbus
Gail Lee Rosenbaum, Dayton
Timothy John Ryan, Toledo
Sherry Maria Sae, Lorain
David Joseph Savant, Stow
Suzanne Marie Sharp, Worthington
Beky Sue Sherer, Grove City
Jody Lynn Shumaker, North Olmsted
Michelle Christine Stalnacker, Boardman
Tonja Denise Stewart, Diamond
Diane Elaine Terflinger, Westerville
Robert Joseph Underwood, Lorain
Michelle Anna Vrooman, North Ridgeville
Jean Leslie Wakefield, Columbus
Kevin Ray Walter, Fremont
Matthew Hamilton Welch, Perryburg
Cathleen Marie Wimmers, Bellbrook
Todd Clinton Wirck, Dublin
Robert Wayne Young, Willoughby

College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

Thomas Eugene Ashby, Ashland
Robert Melvin Beck, Pemberville
Thomas Edgar Beggs, Bluffton
James Edward Beuiter, Bryan
Diana Jean Canaday, Columbus
Andrea Marie Cheek Fee, Columbus
Daniel Shawn Domingan, Urbana
Andrew Mark Gallagher, Loveland
David Allen Garringar, Jamestown
Dwayne Mark Gatuck, Cincinnati
Andrew William Gray, Johnstown
Elizabeth Mary Greer, Columbus
Lauree Jane Griffin, Columbus
John Thomas Harbauer, Perryburg
Dave Andrew Harper, Loveland
Thomas Dean Hart, Warren
Mark William Hesse, Cincinnati
Timothy Lyn Howson, Georgetown
Lorenzo W. Jara, Springfield
Daniel Jay Jennings, Perryburg
Patricia Irene Johnson, Gahanna
Christine Marie Kahoun, Timberlake
Benjamin Dean Kasier, Amosville

Gregory John Kolier, Chardon
Daniel Paul Krupa, Wexford, PA
Laura J. Kujswa, Sylvania
John Mawisy Lesolotho, Columbus
Aaron Frazier Locker, Anna
Robert Michael Lyons, Cumberland
Haydar Hassan Miar, Columbus
Deborah Lynn Miller, Hilliard
Tracey Ray Morrison, New Concord
Christopher Dean Penrose, Stockport
Karen Louise Peters, Columbus
Patrick Paul Puskarich, Cadiz
Noreen Marie Rodriguez, Brookpark
Timothy Douglas Rooney, Urbana
David Cappel Savage, Blanchester
Jeffrey Alan Sayen, Columbus
Robert Kirk Scott, Milford Center
Derek Fitzgerald Sheppard, Newcomerstown
Robert Alton Shugert, Lorain
Gary Evan Smallstead, Newton Falls
Royzien Hiram Smith, Monroeville
Jeffery Scott Spangler, Columbus
Peter William Stacey, Cincinnati
Danielle Jodi Stearns, Bowling Green
Brian Blaine Taylor, Columbus
Charles Ivan Ulrich, Delaware
Scott Vaughan Upton, Reedsdale
Kent Robert Walker, New Vienna
Michael Wade Westendorf, Columbus
Robert David Wheeler, Piqua
Wesley W. Wilson, Columbus

Bachelor of Science in Food Science

Thomas K. Knopp, Toledo
Gregg Alan Larsen, Columbus
Terrence Joseph Mesie, Cincinnati
Michael Dick Rumbaugh, Lima

School of Natural Resources

Bachelor of Science in Natural Resources

David Alexander Campbell, Worthington
Tomas Paul Davenport, Spencer
Brigitte Irene Helfrich, Washington Court House
Andrew Gordon Hyde, Chagrin Falls
Constance Sue Kick, Loudonville
Leobardo Martinez, La Feria, TX
Ava Marie McVey, Conesville
Michael Edward Pitts, Elyria
Joel Richard Plott, Findlay
April D. Tipples, Bexley
Philip Charles White, Piqua
Agricultural Technical Institute - Wooster

Associate in Applied Science

Robert Henry Beecokermann, Cincinnati
Diane Therese Brodnick, Mentor
Bryan Dale Cooper, Tiffin
Hazel Sharlene Davidson, Unisontown
Paul Michael Dietzel, Mayfield Heights
Lora Christine Goehrlich, Toledo
Robert Paul Haney, Tippecanoe
Brian Evan Helsinger, New Philadelphia
Thomas Lee Lunds, Beaver
Amy Elizabeth Lebold, Apple Creek
Catherine Jane McGuilan, Morristown
Eric Tyler Peterson, Hillsdale, MI
James Stephen Prekop, Bedford Heights
Gregory Keith Reed, North Canton
Michael Edward Russell, Prospect
Joseph Toth, Jr., Cuyahoga Falls
Todd Reid Wightman, Cuyahoga Falls
Regina Faith Yoder, Berlin

College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Janet Lynn Adams, Worthington
Joseph Olakunle Aduamotu, Newark
Mark Scott Alvarez, Columbus
Karen A. Anderson, Plain City
Robert Joseph Antonelli, Fairview Park
Robin Renée Apple, Columbus
David W. Arthur, Columbus
Michael David Ashley, North Canton
Christopher Lee Babock, Batavia
Jan E. Baiz, Fredericktown
Amy Lynne Barber, Newark
Shelley Lynn Barnes, Alliance
Lawrence Raymond Barnett, Rye, NY
Shanta Monica Barus, Worthington
Kevin Eldon Beers, Marion
James Joseph Benson, Columbus
Mark Steven Birmilich, Columbus
Elizabeth Ann Black, Dayton
D. Allen Blankenship, Fredericktown
Katherine Ann Boles, Columbus
Bradley Charles Bond, Mansfield
John Harris Bosko, Johnstown
Michael Clarence Bosetti, Sandusky
Linda Ann Bots, Buffalo, NY
Jeffrey G. Bowers, Dublin
John A. Brothers II, Columbus
Andrea Grace Brown, Columbus
Melissa Lynn Brown, Dayton
Megan Lynne Burge, Aurora
Kenneth H. Burr, Jr., Kettering
David Ryan Button, North Olmsted
Shawn Kay Buzz, Mt. Sterling
Jon Steven Canno, Mentor
Jamie Christopher Carey, Columbus

Stephen T. Carey, Galloway
Andrea Lynn Carpenter, Columbus
Emmanuel Aguilta Castillo, Columbus
Kevin Charliebois, Youngstown
Thomas Vincent Chickarellia, Westerville
Mark Alan Chisling, Beachwood
Angelos Damon Christon, Dayton
Andrea Marie Clapp, Powell
Martha Morgan Clegg, Greensboro, NC
Thomas Walton Clinker, Marion
John Douglas Consolo, Akron
David Edward Côté, North Ridgeville
Drew Edward Craig, Scioto
Thomas Avery Culver, Columbus
Michael Scott Cummings, Columbus
Michael Patrick Cusack, Beachcreek
William James Damko, Sandusky
Carolyn Jennifer Dankowski, Avon Lake
Alice Davis, Columbus
David William Day, Columbus
Kenneth Mitchell Deminski, Elyria
Brian Scott Dengler, Parma
John Briggs Devensh, Mariemont
R. Todd Dewberry, Beachcreek
Robert DiPargrazio, Columbus
Troy L. Dixon, Toledo
Joseph Anthony Dollaries, Cincinnati
Beall Aden Donovan, Wapakoneta
David Franklin Dopkins, St. Clairsville
Raymond Matthew Dry, Granville
Daniel Westlake Duncan, Columbus
Daniel Lee Durbin, Jr., Mansfield
Jerry David Eckstein, Mansfield
John Frank Ellis, Westerville
Michael David Emmons, Marion
Thomas Gerrard English, Chesterland
Jeffery Lee Eubank, Greenville
Janice Paula Evancho, Parma
John George Faddis, Columbus
Linda Alyce Fawcett, Columbus
Lisa Marie Firman, Reynoldsburg
Barbara Lynn Fischer, Westerville
Daniel Whitney Fisher, Columbus
Julia Cameron Flick, Columbus
Ronald A. Florence, Cincinnati
Steven Allen Ford, Columbus
Kevin Lyle Forrest, Waterford
Leslie Michelle Foust, Fairlawn
Susan G. Frank, Pittsburgh, PA
Robert R. Gambatesa, Gates Mills
Grethchen Louise Glei, Norwalk
Scott Allen Gibbs, East Liverpool
James V. Gingo, Stow
Cynthia Jo Grocko, Portsmouth
Karen J. Groeber, Columbus
Jeffrey D. Goliver, Lima
Kenton Lee Gorman, Mason
Robert Augustus Grace, Cleveland
Kathleen Anne Gray, Westerville
Richard Paul Greene, Hudson
Ahmad Imad Hafabil, Columbus
Peter Carl-Gustaf Hammar, Upper Arlington
Mark Alan Hansen, Mentor
Nikolaos H. Haritos, Vlachokesarisa-Arcadia, Greece
David Allen Hater, Cincinnati
Melony May Hathaway, Columbus

Peter Michael Hausmann, Westlake
John Andrew Havel, Broadview Heights
Christopher John Hedorf, Rocky River
Mark Samuel Helber, Columbus
Joseph James Herman, Novelty
Susan Lane Hewitt, Strongsville
David William Hickey, Hilliard
J. Keith Higgins, Canfield
Monica Michelle Hill, Columbus
Deron Craig Hoeflinger, Kettering
Charles C. Hoop, Milpitas, CA
Monte Jay Horton, Warren
Scott Lyman Houlton, Worthington
James Alan Huber, Lyndhurst
Michael Richard Hubert, Fremont
Rebecca J. Imes, Beachwood
Issam Mahmoud Ismail, Worthington
Jeffrey Peter Jaeger, Holley, NY
Joseph Janowski, Wooster
John Alan Jones, Cridersville
Scott Howard Joseph, Cleveland
Lisa Marie Karl, New Philadelphia
Thomas E. Kasberg, Columbus
Joseph Oliver Kasperski, Jr., Columbus
Kevin John Kasson, Pickerington
Randy Steven Katz, Akron
Mark Taylor Keil, North Ridgeville
Jay Wesley Kelley, Worthington
Shelly Marie Kern, Elida
Larry Matthew Kidd, West Chester
Cathy Ann Kidwell, Germantown
Diane Elaine Killen, Pickerington
Terence Judson Kirby, Salem
Jerry LeRoy Kirchner, Jr., Kettering
Douglas Scott Klingel, Fairfield
Lonnne J. Klosterman, Kettering
Kevin Joseph Knebel, Delphos
Kerry S. Koch, Worthington
Anna M. Koldys, New Orleans, LA
Lisa M. Kost, Columbus
Thomas John Kovach, New Concord
Freida M. Krajinpy, Parma
Edward Scott Kramer, Broadview Heights
James Patrick Kuther, Columbus
Jeffery Scott Kuver, Mentor
Christopher John Lachowyn, North Palm Beach, FL
Andrew Rodger LaDuke, Worthington
Anette Lai-Kuan Lam, Kuala Lumpur, Malaysia
Susan Adine Lang, Cincinnati
Geoff Bryan Langmeier, Rocky River
Scott Michael LaRosa, Westlake
Jeffrey Scott Lawlor, Toronto
Loren D. Lazarone, Columbus
David R. Leach, Columbus
Diana Ling, Dayton
Kenneth William Lippincott, Columbus
Kevin John Lasko, Columbus
Michael Jay Listman, Beachwood
Bee Hoon Loh, Georgetown, Penang, Malaysia
David M. Looby, North Canton
Michael Anthony LoSchiavo, Medina
George Michael Luke, Adena
Laurel Ann Lutz, Columbus
Gary Lee Mabrey, Jr., Kenton
Martin Joseph Malwiesky, Canton
Catherine G. Marinella, Mansfield

335
Marla Desler Marquit, University Heights
John Alois Marsh, Weirton, WV
Michael A. Marshall, Columbus
Dennis Jay Martin II, Marion
Joseph Richard Mattei, Cincinnati
William Robert Mayne, Marion
Mark Thomas McCalla, Worthington
Amy Sue McCrate, Columbus
Douglas Curtis McFarland, Cincinnati
Francis Christopher McGee, Shaker Heights
Michael Lee McGrew, Springboro
Jorge Alberto Medina Garay, San Diego, CA
John Alois Marsh, Weirton, WV

Kurt Von Schmitter, Logan
Brian Carl Scianambolo, Centerville
Rose Mary Sconchaturo, Columbus
Jon Wayne Scott, Columbus
James C. Seastone, Shelby
W. Andrew Secret, Delaware
Carl Jeffrey Sengelmann, Columbus
Sherry Lynn Settle, Mexico, MO
Carolyn Anne Sheaffer, Columbus
Timothy Chester Sheets, Dublin
Katherine Morgan Foster Shoemaker, Youngstown
David Louis Shidmore, Columbus
K. Michelle Simeonov, Bellefontaine
Martin Phipps Sloan, Kettering
Lee R. Slonim, Akron
Karen Kathleen Smith, Spearfish, SD
Jennifer Joy Sommer, Minster
Thomas William Spanh, Maineville
Patricia K. Spahr, Findlay
Rodney Lee Squires, Fredericktown
Mark Robert Stiechschulte, Kalida
Heidi Ann Stevens, St. Marys
Kevin Michael Stock, Columbus
Thomas Joseph Stoker, Columbus
Douglas Lester Stone, Kenton
Panela Ann Stout, Upper Arlington
Michael Joseph Swick, Delphos
Douglas Edward Syprzewski, Cincinnati
Tana Tanarasuachkok, Bangkok, Thailand
Janet Lynn Taylor, Kenton
Matthew John Theiler, Toledo
Christopher John Theing, Columbus, MD
Clare Edwin Thomas, Jr., Brook Park
Christopher Morgan Thomas, Dayton
John H. Toppart, Worthington
Jolyon S. Torrance, Oakwood
Paul J. Valvoda, Bainbridge
Christopher Allen Vilvick, Strongsville
Kevin R. Vincent, Middletown
Kenneth Edward Vota, Lancaster
Scott Allen Wade, Columbus
Lora J. Wallace, Prospect
Charles G. Warner, Columbus
Paul C. Warner, Akron
Douglas Duane Warns, Bellevue
Barbara Jean Warner, Rockford, IL
Tae-Wei, Alicia Wei, Singapore, Singapore
Molly Lynn Wierigert, Columbus
Stephen Calen Will, Columbus
Kimberly S. Willis, Kettering
Kathleen Ann Willis, Columbus
Victoria Ann Wise, Worthington
Keena Noelie Wolford, Nashport
Yunsoo Won, Old Bridge, NJ
Tat Keat Yap, Kedah, Malaysia
Gilda Gay Young, Marion
Jonathan H. Young, Columbus

College of Dentistry
Dean: William R. Wallace

Doctor of Dental Surgery
Eric D. Arias, Temple Terrecc, FL
B.S. (Spring Hill College)
James Craig Birenbaum, Lyndhurst
B.S.

College of Education
Dean: Donald P. Anderson

Bachelor of Science in Education
Laura Lynn Aldag, Columbus
Karen Louise Andrews, Bluffton
Valerie Lynn Bachus, Ashland
Tracy Lynne Baker, Mansfield
Osvaldo Baldessari, Kent, Kennebec
Denise Renee Balinger, Columbus
Douglas Alan Barber, Baltimore
Matthew Regis Bell, Westerville
Cynthia Renee Bernat, Mansfield
Kristine Genevieve Berry, Vermilion
Patricia Denise Best, New Springfield
Jennifer Lynn Biechele, Huron
Christine Elizabeth Blazak, Broadview Heights
Molly Lee Bungardner, West Jefferson

J. Eric Bush, Edison
Shane Kay Byer, St. Marys
David Michael Carlisle, Millersport
Teri Beth Cohen, Cincinnati
Robin Renee Crispin, Worthington
Kathleen Susan Crunkilton, Butler
Patrick William Cuthbert, Columbus
Theresa Hopkins Dearing, Powell
Michelle Delhillio, Lorain
Vivian Eileen Dodson, Johnstown
Rebecca Ann Durdle, Galion
Jeanne Kathrynn Duwe, Toledo
Larry Steven Farrell, Westchester
Melissa Calouzis, Campbell
Thomas Colt Gilbert, Columbus
Michael Louis Gilliland, Butler
Jeanette Darlene Gladdden, Columbus
Timothy John Gouhin, Columbus
Quinn P. Guel, Canton
Jeffrey Steed Hallam, Columbus
Rebecca Ann Hannah, Elida
Paulette Diane Hargre, Shelby
Lauri Lee Harvey, Loudonville
Angela Lynn Heid, Anderson, IN
Douglas Paul Heitfeld, Cincinnati
Timothy Lawrence Hermon, Warren
Jennifer Christine Hinasty, Wooster
Shannon Rae Hodges, Middleburg
Anita Marie Holloway, Mansfield
Daniel Welty Hugus, Worthington
Linda Kishishian, Westerville
Allison Marie Knott, Westerville
Ronald LeRoy Lance, Lakeville
Darrell E. Lenox, Columbus
Kathryn Sue Likens, Wooster
Rebecca Lynn Liver, Dayton
Linda Jane Lorit, Lima
Caryn Jaye Lowe, Columbus
Larry Dale Marson, Scarborough, Ontario, Canada
Kimberlone Ruth McCourt, Amherst
Karen Leigh McCoy, Canton
Gregory Scott Meadows, Columbus
Terry Jon Mooney, Newark
Margaret L. Moore, Columbus
Lori Ellen Moyer, Champion
Janelle Marie Nelson, Reynoldsburg
Bachelor of Science in Civil Engineering

Gary Edward Angles, Chillicothe
Karen Marie Baldino, Kettering
Christopher Andrew Holbrook, Columbus
William Madison Irvin IV, Athens
Michael John Nodianos, Steubenville
Thomas Edward Reardon, Canfield
Michael Ray Reed, Dover

Bachelor of Science in Civil Engineering

John Carey Hendrix, West Union
Amuar Bin Ismail, Kedah, Malaysia
Issam Semaan Khoury, Lebanon
Joseph Andrew Dennis, Reynoldsburg
Walid Edouard Gemayel, Bikfaya, Lebanon
Joseph Carey Hendrix, West Union
John Carey Hendrix, West Union
Amuar Bin Ismail, Kedah, Malaysia
Issam Semaan Khoury, Lebanon
Randolph Krizmanich, Parma
Kevin Edward Lathan, Rochester, NY
Maximo Ramon Castillo Ramos III, Manila, Philippines
Jeffrey Hoch Schwarz, Medina
Chin-Ghee Toh, Penang, Malaysia
Daniel Alan Whalen, Columbus
Russell Everett Wilke, Milan
Michael Joseph Zuccherio, Kent

Bachelor of Science in Chemical Engineering

Susana Nora Hanuza, Newark
Christopher Andrew Holbrook, Columbus
William Madison Irvin IV, Athens
Michael John Nodianos, Steubenville
Thomas Edward Reardon, Canfield
Michael Ray Reed, Dover

Bachelor of Science in Chemical Engineering

Gary Edward Angles, Chillicothe
Karen Marie Baldino, Kettering
Stephen Robert Bennett, Akron
Robert Borowski, Olean, NY
Paul Christopher Casson, Middletown
Glenn Evan Decker, Medina
Joseph Andrew Dennis, Reynoldsburg
Walid Edouard Gemayel, Bikfaya, Lebanon
Joseph Carey Hendrix, West Union
John Carey Hendrix, West Union
Amuar Bin Ismail, Kedah, Malaysia
Issam Semaan Khoury, Lebanon
Randolph Krizmanich, Parma
Kevin Edward Lathan, Rochester, NY
Maximo Ramon Castillo Ramos III, Manila, Philippines
Jeffrey Hoch Schwarz, Medina
Chin-Ghee Toh, Penang, Malaysia
Daniel Alan Whalen, Columbus
Russell Everett Wilke, Milan
Michael Joseph Zuccherio, Kent

Bachelor of Science in Computer and Information Science

David Lee Adington, Batavia
David Mitchell Bailey, Cadiz
Jayne L. Brady
Wayel Fayez Daiboul, Damascus, Syria
Marwan Daiboul, Damascus, Syria
Andrew Ian Diamond, Amlin
Patrick Joseph Finnenar, Dublin
Charles Joseph Hiett, Jr., Dublin
Christopher Paul Johnson, El Paso, TX
Joel Robert Kallman, Wadsworth
Peter David Knopp, Columbus
Vendy Lie, Jakarta, Indonesia

Bachelor of Science in Computer and Information Science

David Lee Adington, Batavia
David Mitchell Bailey, Cadiz
Jayne L. Brady
Wayel Fayez Daiboul, Damascus, Syria
Marwan Daiboul, Damascus, Syria
Andrew Ian Diamond, Amlin
Patrick Joseph Finnenar, Dublin
Charles Joseph Hiett, Jr., Dublin
Christopher Paul Johnson, El Paso, TX
Joel Robert Kallman, Wadsworth
Peter David Knopp, Columbus
Vendy Lie, Jakarta, Indonesia

Bachelor of Science in Electrical Engineering

Jon Paul Alexander, Jerome
James Ray Ayers, New Carlisle
Ah Tae Heh, Tasek Glogur, Penang, Malaysia
Robert J. Belisle, Worthington
Zaka Ullah Bhatti, Karachi, Pakistan
Mathew Alan Boesch, Bryan
Arthur Bradley Brannaman, Middletown
George Cole Campbell, High Bridge, NJ
Hay Vang Doan, Warren
Debora Louise Good, Ashiabula
Todd Michael Hackney, Alliance
John Richard Hamilton, Beavercreek
Keith Allen Hasselbach, South Euclid
Lawrence Jay Heringer, Columbus
Glenn Millar Hinkle, Circleville
Steven Earl Horning, London
Sandra Kay Johnson, Edgerton
Patrick A. Kaiser, Dayton
Carl Andrew Kochalko, Olmsted Falls
William Kou, Toledo
Paul Martin Kramarz, Chesterland
Steven Joseph Marshall, Grove City
Melissa Jean Mathews, Chesterland
Jeffrey Alan Matz, Ashland
Robert Edward McNicol, Grove City
Leslie Gherda Mohaci, Columbus
Nirav Bharat Patel, Eastlake
James Alfred Sears, Jr., Unióntown
Manto Frank Stoffiare, Port Vue, PA
Sin Guan Tan, Singapore, Singapore
Gregory Wayne Taylor, Pomery
Michael Clayton Tope, Delroy
Michael Allen Ursig, Lancaster
David Ernest Walder, Westerville
Gregory Tyrone Weakley, East Liverpool
Eric Edward Wilcox, Akron

Bachelor of Science in Electrical Engineering

Jon Paul Alexander, Jerome
James Ray Ayers, New Carlisle
Ah Tae Heh, Tasek Glogur, Penang, Malaysia
Robert J. Belisle, Worthington
Zaka Ullah Bhatti, Karachi, Pakistan
Mathew Alan Boesch, Bryan
Arthur Bradley Brannaman, Middletown
George Cole Campbell, High Bridge, NJ
Hay Vang Doan, Warren
Debora Louise Good, Ashiabula
Todd Michael Hackney, Alliance
John Richard Hamilton, Beavercreek
Keith Allen Hasselbach, South Euclid
Lawrence Jay Heringer, Columbus
Glenn Millar Hinkle, Circleville
Steven Earl Horning, London
Sandra Kay Johnson, Edgerton
Patrick A. Kaiser, Dayton
Carl Andrew Kochalko, Olmsted Falls
William Kou, Toledo
Paul Martin Kramarz, Chesterland
Steven Joseph Marshall, Grove City
Melissa Jean Mathews, Chesterland
Jeffrey Alan Matz, Ashland
Robert Edward McNicol, Grove City
Leslie Gherda Mohaci, Columbus
Nirav Bharat Patel, Eastlake
James Alfred Sears, Jr., Unióntown
Manto Frank Stoffiare, Port Vue, PA
Sin Guan Tan, Singapore, Singapore
Gregory Wayne Taylor, Pomery
Michael Clayton Tope, Delroy
Michael Allen Ursig, Lancaster
David Ernest Walder, Westerville
Gregory Tyrone Weakley, East Liverpool
Eric Edward Wilcox, Akron

Bachelor of Science in Engineering Physics

Mohammad Moh'd Adel Abu Ali, Jordan
Mohammad Javed Ahmed, Pakistan
Maiunm Monirul Islam, Bangladesh
Tanvir Ahmed, Bangladesh
Ali Moinuddin, Bangladesh
Islam Ahsan, Bangladesh
Mehedi Sohel, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanul Islam, Bangladesh
Sang Wook Song, South Korea
Md. Rupanu
Bachelor of Science in Industrial and Systems Engineering
Jacqueline Louise Dils, Avon Lake
James Paul Henderson, Fairborn
John Joseph Kelly, Beavercreek

Bachelor of Science in Mechanical Engineering
Lisa Marie Abrams, Columbus
Robert George Bastaja, Westerville
Brian Ray Bauer, Fairfield
Colleen Julianne Brofford, Grove City
Jeffrey Thomas Coughlin, Greenville
John Joseph Kelly, Beavercreek
Roger John Gatchell, Harpster
Larry Robert George
Lisa Marie Abrams, Columbus
Brian Ray Bauer, Fairfield
Glenn Scott Gmitter, Waterville
Thomas W. Moody, Engineering
Julie Ann Nesbit, Sandusky
James Robert Meade, Cincinnati
Howard Christopher Gill, Newark
David Alan Johnson, Wadsworth
John Louis
William Francis Marek, Cincinnati
Ned Brian Heminger, Engineering
Kirk Fredric
Stephen M. Bruno, Columbus

Bachelor of Science in Systems Engineering
Gregory Lee Cotterman, Hebron
Robb Andrew Coventry, Uhrichsville
David Scott Curtis, Las Vegas, NV
Joseph Scott Dale, Columbus
Jonathan Paul Holway, Grand Island, NY
Bradley William Keith, Columbus
James Curtis McCrery, Dublin
Charles Walter Wertz, Maumee

Bachelor of Science in Landscape Architecture
William Michael Leigh, Dayton
Lisa Marie Stan, North Canton

College of Home Economics
Dean: Lena Bailey
Bachelor of Science in Home Economics
Shelley Renee Abraham, Cleveland Heights
Dianne Patricia Sprang Ainsworth, Kent, England
Becki Ellen Anderson, Columbus
Angela Marie Ankrum, Zanesville
Betsy Carin Bentsen, Mansfield
Lynn Marie Boston, Neffs
Douglas Gerard Brennan, Dublin
Michael Andrew Brossman, Powell
Amy Sue Cook, Columbus
Lori Ann Cummins, Stow
Susan Michelle Curetti, Dublin
Patricia Ann Daniela, Waverly
Lisa K. Destefano, Lakeside
Janice Marie Estey, Columbus
Susan Marie Gillespie, New Carlisle
Mary Carolyn Glassburn, Columbus
Della Marie Goodwin, Cincinnati
Shelley Greenspan, Columbus
Bernice Renee Hagler, Toledo
Jean Ellen Hanna, Miamisburg
Jane Elizabeth Hawes, Norwalk
Karen Marizzan Holtz, Columbus
Sarah Lou Jones, Columbus
Kerry Anne Klunk, Worthington
Lynn M. Koch, Port Clinton
Laura Jane Lazor, Williamsfield
Monique Leemkuil, Pickerington
Robyn Lynn Long, Indianapolis, IN
Mary Jane Lopez, Hurow
Sarah Anthony Mathews, Worthington
Nancy Renee Mauger, Columbus
Beverly Elizabeth Meahan, Westerville
Familia Jo Miller, Worthington
Emily Ann Mooney, New Lexington
Cheryl Lynn Nagy, Painesville
Christine Mary O’Connell, Westerville
Kathleen Diane Parsons, Chesterland
Joan Kathryn Paulino, Columbus
Doris Lynn Pletcher, Gahanna
Beth Lynne Poggiali, Sandusky
Holly Anne Quinn, West Chester
Marcy Beth Rabb, Pepper Pike
Tracey Elizabeth Rogers, Vermilion
Cynthia Renee Rollins, Zanesville
Michele Marie Rosa, Lorain
Dian Cara Roslovic, Columbus
Jeanene Mignon Sanner, Grove City
Melinda Lou Scior, Columbus
Marcia Jane Scott, Columbus
Linda Colleen Sexton, Columbus
Kimberly Ann Stone, Cincinnati
Myllitta Louise Stough, North Canton
Jean Marie Teynor, Bucyrus
Sandra Gail Thomas, Chardon
Diane Marie Vanderhoff, Marion
Victoria Lynne Van Niman, Cincinnati
Renée Vaughn, Willoughby
Jania Lynn Weis, Ottawa
Lacy Anne Wiget, Reynoldsburg
Thomas Nils Wisloff, Flanders, NJ
Patricia Anne Wynne, Chicago, IL
Samuel Allen Zonker, Chardon

Bachelor of Science in Food Technology
Stacey Yvonne Reagan, Van Wert

Bachelor of Science in Hospitality Management
Melissa deQuirós Casino, Akron
Kevin Bruce Hathaway, Columbus
Bryan Lawrence Hill, Norwalk
Rachel Diane Jackson, Granville
Dina Lee McDaniel, Radcliff, KY
Dean Scott Puccetti, Sylvania
Tacy W. Raymaley, Upper Sandusky
James Razzante, Mayfield Heights
Judy Kathryn Sprott, Hilliard
David C. Winegarner, Marion

Bachelor of Science in Nutrition
Paul Evan Kelner, Columbus

College of Law
Dean: Francis X. Beytagh, Jr.

Juris Doctor
Leslie Armstrong, Columbus
B.S.
Ken A. Capka, Fairview Park
B.A. (Xavier University)
College of Nursing
Dean: Carole A. Anderson

Bachelor of Science in Nursing
Christine Elizabeth Campbell, Columbus
Michelle Antonette Cindrich, Cincinnati
Heather Rae Kornon, Dayton
Sangita Kanti Patel, Columbus
Kristen Martine Ransom, Columbus
Jack Tager, Cincinnati
Cathy Anne VanTorn, Circleville

College of Pharmacy
Dean: John M. Cassidy

Doctor of Pharmacy
Bradley Alan Halverson, Columbus
Vicki Lyn Just, Columbus

Bachelor of Science in Pharmacy
Dawn Michelle Awwiller, Fredericktown
David Andrew Beard, Columbus
Ronda Kelly Elswick, Wateresburg
Douglas James Huffman, Columbus
Karen Therese Lindway, Brecksville
Sandra Lee Malipeis, Hamilton
Roger Lee McElwee, Montpelier
Michael David Porteus, Columbus
John Douglas Warth, Chillicothe

College of Social Work
Dean: Richard E. Boettcher

Bachelor of Science in Social Work
Kristen Lee Strong-Geho, Marysville

Graduates with Honors
Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class.
Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with curricular distinction and dedication to high educational goals.

College of Allied Health Professions

Bachelor of Science in Allied Health Professions
Jody Marie Almasy, Campbell
Robert Charles Czech, Niles
Paul Michael Elenin, Lorain
Lisa Ann Evelizer, Oberlin
Anne Marie Ference, Avon
Donna Hilburger Jones, Columbus
Barbara Lynn Mazzoni, Wakeman
Erin Bridget McCarthy, Grove City
Kenneth Michael Shively, Steubenville
Kevin Bert Shively, Steubenville
Sharon Marlene Thomas, Youngstown
Marina Faye Twigg, Marysville
Timothy Michael Woodyard, Pomeroy

Certificate of Post Baccalaureate Medical Technologist
Nagy Michel Saba, Damascus, Syria
B.S.Phar. (University of Damascus)

College of Science

College of Business

College of Engineering

College of Education

College of Design

College of Architecture

College of Arts

College of Theology

College of Law

College of Health

Summa Cum Laude with Distinction in Art Education
Sandra Hughes Aska

Summa Cum Laude with Distinction in Forest Resource Management
Ava Marie McVey

Summa Cum Laude with Distinction in Mechanical Engineering
Thomas James Gieseke

Summa Cum Laude with Honors in the Liberal Arts
Jacqueline Marie Labbe

Summa Cum Laude
Kirk Fredric Adkins
Christopher Lee Babcock
Brian Ray Beuer
Thomas Walton Clinger
Jill Annette Frye
Cole E. Hatcher
Jennifer Christine Hisnay
Diana Ling
Catherine Jane McGilton
Doris Lynn Pletcher
Maximo Ramon Castillo Ramos III
Robyn René Rutan
Donna Lee Sharp
Christopher Allen Villwock
Barbara J. Wakely
Barbara Jean Warren

Cum Laude with Honors in the Liberal Arts and with Distinction in English
Frederick Louis De Naples

Cum Laude with Honors in the Liberal Arts and with Distinction in History
Raymond Dye Irwin

Cum Laude with Distinction in Food Science and Nutrition
Thomas Karl Knopp

Cum Laude with Distinction in Italian
Lisa Renée DiGiacomo
Cum Laude with Distinction in Japanese Studies
Tracy Randall Williams

Cum Laude with Distinction in Psychology
Kevin S. O'Brien

Cum Laude with Honors in the Liberal Arts
Renee Ellen Russell

Cum Laude with University Honors
Colleen Julianne Brofford
James Ray Wirtley

With Honors in the Liberal Arts and with Distinction in International Studies
Samuel Elison

With Distinction in Dance
Kate Cushman

With Distinction in Family Relations and Human Development
Kathleen Diane Parsons

With Distinction in Spanish Education
Catherine Diane Zarkos

With Honors in the Liberal Arts
Michael Andrew Grouse
Lisa Marlene Koeki
Stephanie Elaine Miller

With University Honors
David Ryan Button
Patrick A. Kaiser
William Kou
Robert Joseph Underwood
Charles G. Warner
Eric Edward Wilcox
The Board of Trustees met at its regular monthly meeting on Friday, December 2, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.

* * *
December 2, 1988 meeting, Board of Trustees

The Chairman, Mr. Immke called for the special opening reports to be presented.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

REPORT ON REZONING OF THE UNIVERSITY

Mr. Jackson:

If I could, I would like to take a minute prior to talking about the Research Park and talk about something that fits in with it which is the rezoning of the University.

Back in 1980, the Supreme Court of Ohio, in the case of Brownfield vs. State of Ohio, ruled that universities really had to make a "good faith" effort to comply with local zoning codes and really to try to be a good neighbor. So as a result of that, we began to look around to see what kind of zoning codes were available locally. As it turned out, there was nothing that really fit the needs of The Ohio State University for a research park or for the kinds of business development that we might like to get into which supported the research and the public service and the education purposes of this institution. As a result of that, we went to the City and worked with them to develop a model zoning which was called "University-College Research Park District." We worked with them and in 1986 the Council approved this research park district. It really is a very comprehensive zoning classification and allows the University to do almost anything that is appropriate in support of the goals of the institution.

Since the Code was enacted we took a look at the Campus and we had, as you know, annexed the portion that was in the township which was essentially west of the river. We thought it best that we try to rezone the entire Campus, even those portions east of the river and those portions which had been in the City for some period of time. So we did apply to the City for this rezoning for the entire Central Campus -- everything from High Street to North Star, from Ackerman essentially down to Kinnear, and down through the Hospital Complex and down to Eighth Avenue, east of the river. It was an area about 1625 acres -- probably as large a rezoning as the City of Columbus has ever done. This rezoning classification will fit any other higher education institution in Columbus, so it is not just a rezoning that will apply to us.

The purpose of this rezoning district, obviously, is to permit us to build the facilities that are needed for educational purposes, as well as those that we think we would like to have in the research park area. It would allow us also, after going to the Board of Zoning Appeals, to build somethings like gas stations, restaurants, and the like. But we would, for certain uses, have to go to the City for those variances. In addition, prototype manufacturing is allowed as is usual at a research institution.

The restrictions within the district are those that you would have in any zoning district. They are more restrictive as you get nearer the edges of any property. And certainly, we would have to meet all of those that have to do with noise, sound, odor, vibration, and all
December 2, 1988 meeting, Board of Trustees

REPORT ON REZONING OF THE UNIVERSITY (contd)

Mr. Jackson: (contd)

of the other things that are involved. There is no parking require-
ment in this zone. We think that it is really very applicable for
our entire campus and we are very pleased.

As you know, there was an extended period of discussion with some of
the neighbors to the west and we did end up with a limitation to the
text of this rezoning. In essence, the limitation applies to the
western boundary along North Star and our northern boundary from
North Star over to Kenny Road. The western portion of that is
woods, a very dense woods, and on the north side of our property are
houses which are in the City of Columbus. On the eastern side there
are some office buildings and an office complex.

The Limitation Text provides for a 150-foot setback along the
western portion with essentially nothing except green space. You
can put some seating out there and some benches and that sort, but
essentially it is a landscaped area. From 150 to 250 feet we are
permitted to build buildings up to 50 feet, for all practical
purposes. The parking would be screened, as well as mechanical
equipment and any sort of refuge collection and the like. In the
next 100 feet, or between 250 and 300 feet, we would be allowed to
step up in building height 1 foot for every 2 feet in back of that
line. And beyond the 350 foot, there are no requirements other than
the standard requirements of that rezoning district.

Along the northern boundary it changes just a little bit because of
the density of the woods. What we indicated there was that we would
not put any buildings for 150 feet, but after the first 55 feet of
woods, then we would be able to put shielded parking and the like.
In the area where there is no woods, which is a very short distance,
we agreed to plant some trees and create a forest and not build
anything until those trees matured to a 25-foot height. That is the
Limitation Text.

The Columbus City Council on November 28, 1988, did approve this
limited University-College Research Park District with a six to zero
vote, with one councilman abstaining because of a "conflict of
interest." They limited the discussion to twenty-five minutes per
side. You may know that the residents over there did apply to
rezone our property. So there were actually two resolutions before
Council -- one was our rezoning and one was the residents' rezoning
of our property. Council voted, as I said, six to zero to support
us and turned the residents down by the same margin.

It has been truly a learning experience for me. I think it has been
a learning experience for a lot of us who worked on it. Like so
many things, it was truly a team effort: Dan Schoedinger and George
Jenkins from the Voyrs firm, who assisted us; Weldon's staff, who
put in endless hours of work in trying to prepare documents and work
with the residents; my own staff; friends of the University; members
of the Board of Trustees; and citizens. It was just a real team
effort on an awful lot of peoples' part, and without them we would
have not accomplished this. I want to pay public tribute to them
for that. As I said, it has been a learning experience. I think
December 2, 1988 meeting, Board of Trustees

REPORT ON REZONING OF THE UNIVERSITY (contd)

Mr. Jackson:

the University is well-positioned to add that to the assets of the University as it moves forward in the coming years. I would be glad to try to answer any questions as it relates to that.

Mr. Teaford:

Does this mean that the State Computer Center can now proceed?

Mr. Jackson:

The State at this point does intend to proceed with the Computer Center. I have asked them to look at a couple of things in talking with some of the people involved over there. They had talked about moving the building a little further to the east and the State has agreed to take a look at that. There is also, as you know with any large computer center, large cooling equipment, and that is presently planned on the northwest side of that building which is adjacent to that apartment complex. So there is concern by the owners of the apartment house about noise, vibration, and what have you. And so we have agreed to take another look at that. I think those are justifiable and the State Architect has agreed to do that.

The only thing that, I think, was discussed by some folks in the media after -- not only after the rezoning, but even during the rezoning and prior -- was their concern about whether or not the zoning classification was constitutional. At the rezoning meeting, Ms. Lazarus asked the City Attorney about that issue and he was quite firm in his position that that issue had been discussed when the rezoning classification was applied for as to whether or not he thought it met that test. He felt very strongly that it did, that it is a mixed use zoning, and it was not different than many other zoning classifications which require a broad base of utilizations within those classifications.

So, I think, Mr. Teaford, it is my understanding that the State does intend to proceed and we will certainly work with them and encourage them to proceed.

(See Appendix III for complete text of Zoning of the Columbus Campus of The Ohio State University, page 405.)

--0--

REPORT ON THE RESEARCH PARK

Mr. Jackson:

We do have a document we would like to share with you which has a fair amount of background on what has happened, where we are and what we are doing. I think it is helpful. I would like to take just a few minutes, if you will permit me, to go down through some of it.
December 2, 1988 meeting, Board of Trustees

REPORT ON THE RESEARCH PARK (contd)

Mr. Jackson: (contd)

Back in 1983, Professor Arthur Adams forwarded his Research Complex feasibility Report to the President. At that point, he did recommend that the University proceed with a research complex. President Jennings then asked the community to proceed to develop a research park complex. We do have a slide showing the three sites that were essentially picked out; they were the West Campus, Ackerman Road, and Don Scott Field. What we want to talk about here today, I think, is to review where we are with each of those.

In the upper picture is the Don Scott site which shows the entire airport. And as a part of the process when we had first gone through this, the site we had all chosen on to do first up there was about 200 acres (the red area) along Rt. 161 and it actually bent around and went over to Sawmill Road. That site, as we all know, has been put on hold until such time as we are done with the Master Plan for the airport itself and the noise study. And as an update on that, I would indicate that we now are at the point in that process where the consultant has recommended three different alternatives. They have had a public hearing and will now go back and come up with one particular recommendation and will then finish the noise study as it relates to that one choice. After that, it will come to the University, and approximately in June or July of next year we will be in the position, if the University so chooses, to send that on to the FAA for consideration and perhaps final approval. If that sort of time frame is followed and is not delayed, we would expect some sort of approval from the FAA probably in late 1990. So what that really means is that further consideration -- or a Master Plan or a land use plan -- for any property beyond the airport's needs would probably commence at that point in time. Based on the assumption that the plan is accepted and the airport -- as recommended in reports to this point -- stay there, I think that the long-range changes at Don Scott are truly long-range, but the potential is truly there to blend the airport and other uses at that site. There obviously will be much discussion about that.

Secondly, the West Campus site has been talked about in many configurations and in many ways. But the bottom line for the West Campus is that we have essentially chosen to walk and crawl a little bit before we try to run over there. We have acquired three buildings, two we have actually purchased now, and one we have leased that we have developed into research park uses. One is the Edison Welding Institute at 1100 Kinnear Road, which is the old farm machinery distribution center -- Allis Chalmers. And you will remember the Edison Welding Institute is a product of the Governor's move to combine universities and industrial units in this State and across the country to do research. And, we, as a part of our commitment to that, besides buying the building and improving it, they have a five-year $1.00 a-year lease, and those five years for the most part are pretty much up.

The second building is 1212-1216 Kinnear Road. It has several mixed uses in it at this point. And the other one is 1224 Kinnear Road, which we talked about this morning, in terms of making a purchase.
Those buildings represent some 125,195 square feet, and we have some slides of those buildings which I think we should go through. Again, that is the building that you saw this morning which we purchased. I think we have a couple of other pictures of that building. That is the front or the inside, I guess, of the lobby of that particular building. That is a picture of actually some of the work areas where we have left the ceiling open, run the air conditioning through the structure itself, painted the underside of the structure, insulated it, and provided a very open and airy space. It looks dark because the majority of the work done in that building is with computers and CRT screens and so there is not a great deal of light needed. It turns out, I think, that that is not probably quite enough and there is some need for some additional lighting.

This is 1100 Kinnear Road, or the old Allis Chalmers building, which has been modified. The front side now contains the Edison Welding Institute. This is a picture of the Destructive Materials Lab, which is inside that building. This is the Laser Welding Lab. And this is 1212-1218 Kinnear Road that I talked about a little bit ago. This is the lobby for the Center of Mapping, which is in that building. And you have heard, over time, about the AMT Walking Machine — the walking project which has been talked about for sometime. They have taken over the backside of this building. This is the area that Sanese, the local vending machine people, used to use for their preparation of foods for their vending machines until they moved onto Busch Boulevard. This is the engineering portion of the AMT Lab.

When you add the buildings we just talked about, we still have some vacancy, along with the square footage which is presently being used in the West Campus facilities for research, you end up with a total of almost 900,000 square feet which will be dedicated to uses in the Research Park. That, of course, includes the State Data Center. And we are talking about, possibly, in the neighborhood of 1300 or 1400 people.

We have taken some very major steps as it relates to this whole project and this whole concept. Not only have we accomplished some actual utilization: 1) we have annexed the area to the City of Columbus so we can get access to the public utilities, not just us, but any private users who will come later perhaps; 2) we have zoned the entire Campus, including the West Campus; 3) we have, as I have said, acquired the three buildings and we have improved those buildings and have research tenants in them; 4) we have executed the lease for the State Data Center; and 5) which is one that you don't see necessarily, but I think is a great asset in terms of promotion, and that is that we have obtained access to uplinks from the entire campus, not only through public broadcasting, but also through the commercial communication by use of Com III, which is down at Third Avenue and Olentangy.

So we have uplink capability for both private and public uses throughout the entire Campus. And we have used the commercial one
December 2, 1988 meeting, Board of Trustees

REPORT ON THE RESEARCH PARK (contd)

Mr. Jackson: (contd)

for several athletic events and that way they don't have to bring in quite as much equipment in order to originate broadcasts from the Campus. But we think, in light of continuing developments -- and Mrs. Bowser talked this morning about the use of uplinks and the satellites for the distribution of education, and I think the potential will certainly grow. So, we think that is an asset to the Park, also.

We have talked about Don Scott, we have talked about the West Campus, and I think the only other one I would like to make a few comments about is Ackerman Road. Last year we talked about dedicating about 45 acres on the east side of St. Rt. 315, lying essentially between Ackerman Road and the water tower, and from 315 over to where we have built the Day Care Center. It is an extremely attractive site with a major highway interchange adjacent to the University. The back end of that, south of the water tower, will be an arboretum, an open space, and, of course, to the east is the married student housing and some open area. So, it is an extremely attractive site.

We did invite developers to make proposals, to see if anybody was interested in developing that. We did receive nine proposals and a committee of staff have recommended that perhaps four of them were capable of doing the job and a project in a vein which would be consistent with the University's desires. Quite frankly, that's the point at which we are with that. It has not proceeded due to the pressures of other things going on in the last few months. And quite frankly, I must tell you, I didn't really think it was appropriate to push it too hard until we had it rezoned. So, I think it now lays on the table for further discussion by all of us and I would hope that it will be.

Again, as I said before about the rezoning, Jack Hollander, myself, Weldon, and all of our staffs have all worked very hard together. Jack has had tremendous input with keeping us honest about keeping it pure, particularly the West Campus portions of it, with research and looking for people who would fit into it well. Weldon's staff, in terms of the financing and the logistics of it all, and my staff. Again, it has been a team effort and, I think, we have gotten an awful lot done in really a relatively short period of time. And, I think, the ground is now laid for whatever directions the University really wants to take with these opportunities. I would be glad to answer any questions.

Mr. Teaford:

How much vacant space is there on the West Campus?

Mr. Jackson:

Presently, there is about 20,000 square feet -- 10,000 of which is a basement area. We are at the point where 10,000 square feet is essentially nothing and the people who are adjacent to it would like to have it, but they can't come up with the bucks right now. We
December 2, 1988 meeting, Board of Trustees

REPORT ON THE RESEARCH PARK (contd)

Mr. Jackson: (contd)

really have worked with several people -- as an example, I would recommend to this Board that all of the buildings that become available along Kinnear Road on the north side, from Kenny all the way to North Star, if we can at a reasonable price, we ought to acquire those and obtain those in some fashion.

One of them has been bought by an individual who, I think, intends to fix it up and perhaps hopes that we will lease it or somebody interested in being close to the University will lease it. We have talked to developers about the possibility of a leaseback kind of arrangement like we had with the Day Care Center, where they would build it and lease it back to us and then we would go forward, but we are not willing to make the kind of financial commitments that they need to get it done. But, we have worked with a number of people on that sort of thing within that area. So, we continue to try to be vigilant about that, because I think it is important -- and I think most everybody else would agree -- that we ought to have everything within that parameter. Jack, would you like to add anything?

Dr. Hollander:

No. You've done a fine job.

Mr. Teaford:

We do expect that we will start moving again then on the site on Ackerman at least.

Mr. Kessler:

What ever happened, Mr. President, of the idea that we talked about sometime ago to have a Board that would focus on --

President Jennings:

It is still there, Jack. As Dick said, we have not been pushing it, not only because of other activities, but because we have been waiting on what will be the disposition of the West Campus land. That's an alternative, a board or bringing in somebody who would do this for us. In my mind, the key decision is how closely it has to relate to the University's normal activities for a tenant to be eligible to be in that park. To this day, we have been awfully stringent on that. I think it is fair to say that our stringency on the use by the tenants is what has kept this as a small operation. We have to continue to ask that question as to the tenants, what are their contributions to the institution other than just the rent. That becomes the key decision. That is what we have to continue to focus on.

Mrs. Bowser:

Have we ever seen the strategic plan by Dr. Charles Perry?
Mr. Teaford:

Yes.

Mrs. Bowser:

We did. He sent us a copy?

Mr. Teaford:

Yes.

Mr. Jackson:

Mr. Kessler, the West Campus, I think most everybody agrees that it would be best to keep that very closely related and associated for faculty needs, student needs, and to the research of the institution. It was hoped, at least on my part, that the area at Ackerman Road that we would have those kinds of uses there, but we would also have the kinds of uses where -- as an example, Cray, who sold us the Supercomputer, they need a support staff and it would be good to have that support staff in proximity to the Campus. That might be a good place for them. Maybe IBM, maybe any one of the computer type folks, maybe a faculty member who has a small project on the side outside of the institution might want space in the facility. Those are the kinds of utilizations I think that we perceive at that site.

Mr. Kessler:

I don't have the answer. It is a wonderful asset of the University to have that land, because of the close proximity to Ohio State, the road systems, and to downtown Columbus. So, the location is excellent from a developer's standpoint. We are not a developer and as Dick was saying on the rezoning, he learned a lot by going through the rezoning. We do that all the time. I am not proposing that we be a developer, but I think we should really give a lot of thought to what we should do with the property. Having said that, I don't know what we should do, but I don't think we, as a university, will ever be quite as aggressive as a developer would be or somebody willing to go out and get these tenants. Because the Cray's and IBM's, people are out there trying to get them everyday right near us. So, whatever we do with it, I think we should try to work as a Board and concentrate on what we should be doing. I don't think we have made any mistakes yet on the property, and I think getting the rezoning is appropriate. We have had some fanfare about what we are going to do with it and we -- as Dick said -- I think properly we are crawling.

Mrs. Bowser:

I think we are one of the few major, comprehensive universities in the United States that has an opportunity like this, as far as land is concerned. I can't think of any other that has this advantage.
That is really so incredibly important now for Ohio State, the fact that we are not land-locked. I don't know of another university right now that doesn't generate a major problem, in terms of land use, every time they talk about a new building. But we have those land opportunities, now we need to use them. And that is why I say the emphasis must be on what the tenant uses it for. At this stage, we don't need West Campus land beyond the normal plan for the next fifty years. But, all the property and the buildings -- there have been a lot of university presidents and a lot of boards of trustees severely criticized throughout Ohio, for land purchases that we now take as a normal part of The Ohio State University and are utilizing them in a very major way.

Once a month I have a breakfast with students and the typical question I get is, "why can't we have better parking at Ohio State?" And I say, "well, we can -- we can have better parking right now at Ohio State. We can't build more ramps, because that is $13,000 a slot, but we can for example, put a parking lot down perhaps on the South Oval Mall or perhaps in the Oval." Obviously, I am kidding. The point is that on this side of the river there is no land left. That is the realistic activity at every university in America. There will come a time, fifty years from now, when the West Campus is not thought of as separate from the rest of the institution. We do not have any land for practical purposes. Myles was talking about us wanting to build a major new central library. Where? Wonderful, underground?

Mr. Teaford:

Under the Oval.

President Jennings:

Unless you're talking about doing something like that, you are taking major green space if you want to put it close to the Oval.

Mr. Teaford:

Harvard Library is under part of Harvard Yard.

President Jennings:

The Michigan Law Library is six stories underground and the bottom floor gets sunlight. It is built on an angle. It is a magnificent facility, it is a beautiful facility inside. That is right, as you just said, it is expensive. The point is there is no land left on this side of the Campus. For major activities on this Campus we have to go to the West Campus. That land is important to preserve.

Mr. Kessler:

I think it is clear that we wouldn't take land to develop a research park that would be needed for the University. But not only do we have a research park area, but we also have Don Scott. There is a
December 2, 1988 meeting, Board of Trustees

REPORT ON THE RESEARCH PARK (contd)

Mr. Kessler: (contd)

lot of unused land there. I think that we should study it. And now
that it is zoned, I think it is really appropriate to look at it.

President Jennings:

Jack, I am not disagreeing with you and I am not suggesting you do
anything else. I am saying that the call on that is a closer call
as to what is valuable and what is not. The land on this side isn't
here. What is going to happen, for example, when the children of
the baby boomers start arriving. That is when the demographics
start pushing the enrollments up.

Mr. Jackson:

I would like to make one more comment and that is that I think this
an extremely appropriate time to review this. But I would also like
to say for the sake of the press that this doesn't indicate any
massive new development tomorrow morning along North Star Road that
nobody has known about.

(See Appendix IV for complete text of The Ohio State University Research
Park -- Progress Report to the Board of Trustees, page 409.)

--0--

REPORT ON THE COLLEGE OF PHARMACY

Dr. Brand:

It is my pleasure to introduce you to Dr. John Cassady. John
received his undergraduate B.A. degree from DePauw University in
1960, with a major in chemistry. He obtained his Master's degree
and Ph.D. degree -- Ph.D. degree in 1964 from Western Reserve, now
Case Western University in Ohio, with a major in organic chemistry.
Dr. Cassady was an NIH post-doctoral fellow in the mid-60's,
1965-1966, at the University of Wisconsin.

In 1966, he joined the faculty of the School of Pharmacy at Purdue,
as an assistant professor and he remained there to work his way
through the ranks to become professor in 1974. He was appointed
department head in medicinal chemistry and pharmacognosy in 1980.
In 1987, Dr. Cassady was appointed the Glen L. Jenkins Distinguished
Professor of Medicinal Chemistry at Purdue. He came to us April 1,
1988, as Dean of the College of Pharmacy.

Amongst his many awards he was elected to the Membership in the
American Association for Advances in Cancer Research and was elected
a Fellow of the Academy of Pharmaceutical Sciences in 1979. In
1987, he was elected a Fellow of the American Association of
Pharmaceutical Scientists, as well. In 1981, Dr. Cassady received
the Purdue Cancer Research Award and recently in 1985, the Giswald
Lecture Award from the University of Minnesota.
Dr. Brand: (contd)

His research interests involve the discovery and design of anti-cancer drugs from natural products and biosynthesis. And his current projects funded by NIH involve studies of anti-tumor and chemo-preventive agents from higher plants and synthesis of potential anti-tumor agents.

Since his coming to Ohio State he has been very active in continuing to support research in the College of Pharmacy. A very strong college, I should tell you. Ranked highly amongst competing colleges of Pharmacy in the country and the Big Ten. And he has initiated a strategic planning process within the College, as well. John, if you will tell us a bit about the College we would appreciate it.

Dr. John M. Cassady:

Thank you, very much Provost Brand, President Jennings, Members of the Board and colleagues. I appreciate this opportunity to come and address you on behalf of the College of Pharmacy. One of the things that Myles asked me to do as part of my remarks is to comment on some personal factors. I decided to relay some of those personal factors that led to my decision to leave a predominantly teaching and research position, in which I was very comfortable and happy, and come into a situation where I was involved in a different level of administration. There were a number of things that I felt were necessary in order for me to make a decision to move in that direction. Ohio State University presented, in almost every case, a very positive answer to my questions.

One of the things that I was looking for was an institution and a college that had strength and tradition. Another that I was looking for was an institution where there was administrative support for developing programs of excellence including multi-disciplinary graduate and research programs. Another factor was that the college should be a comprehensive college. That is one that is involved in both undergraduate education and a graduate education and research and located in a major medical center. It had to have a very high quality infrastructure, in terms of instrumentation and computer facilities. It had to have the vision to develop facilities that will allow program development. In that regard, without spending a great deal of time on it, I should mention, you probably are aware, that there has been a major commitment of the university and the State to construct a connector building that will link the College of Pharmacy and the College of Biological Sciences. This will allow us to generate centrally shared resources with Biological Sciences and this will provide a unique facility for interdisciplinary research and education in the biological and pharmaceutical sciences.

Another thing that I think we sometimes take for granted at Ohio State University are some of the unique funding mechanisms that we have to support program development and faculty. Among these are the Eminent Scholar, the Academic Challenge and others. These certainly do not exist at Purdue University and probably do not exist at most universities in the United States. I think that from
Dr. Cassady: (contd)

a personal point of view I was also interested, as Myles indicated, in an institution that encouraged administrators to remain involved as much as possible in teaching and research. It was important for me to continue my research program in the area of medicinal chemistry.

I will also say -- as long as I am on the personal side and before I get into the slides and overheads -- that I also enjoy sports. And this is nothing against Purdue -- by the way, I don't want any of this quoted. Among the things I enjoy is Big 10 football. So, Myles arranged on one of my visits for me to attend a game. It was a great game and we had great seats -- we were on the 50 yard line. So, I came to the University with great expectations. To make a long story short, I made a trip over to talk with the people in the Ticket Office to ensure myself of the best seats possible. I went to my first game and we were on the minus 5 yard line. I came to a reception not too long after that and ran into the young man you was supposedly helping me get excellent tickets and I told him, "when I was an Assistant Professor at Purdue University, I was in better seats than this." And he looked at me and he said, "Welcome to the Major Leagues." So, I'd like to say that I am happy to be in the Major Leagues. And I think clearly, I hope you will feel also, that our College of Pharmacy is in the Major Leagues.

Let me show a few initial slides and then I will go to transparencies. I just want to give you a little bit of an overview and then focus initially on the undergraduate program and then move to the graduate research program and some of the things that we are interested in doing.

First of all you should know that the College of Pharmacy at The Ohio State University is one of the oldest in the country -- 103 years old and celebrated its' centennial in 1985. The College has always provided leadership in undergraduate education and graduate education. The College was the first with the four-year B.S. degree in Pharmacy and the first with the five-year B.S. degree in Pharmacy. And was one of the first -- probably the first two or three colleges in the country to establish a graduate program with a Ph.D. degree in the pharmaceutical sciences.

We are currently housed in Parks Hall and, as I indicated -- it is going to be difficult, probably, for you to locate -- but I think you can locate it if you look just below the -- out of the horse shoe, you can see just below Lincoln Tower there, Biological Sciences and Pharmacy. And somewhere between those two structures we hope within the next four to five years there will be a connector building or buildings that will allow us to advance our programs. As I indicated, we are concerned at both levels in education in pharmacy, both at the undergraduate professional level and at the graduate research level.

Now, what I would like to do, if I could, is switch to some transparencies to give you some data. First of all, to give you The Ohio State University College of Pharmacy in a nutshell, there are
five major divisions in the college. As you can see, we are not one of the large colleges in the institution. We have thirty-six tenure track faculty. You get another feeling about our program when you look at the number of clinical faculty that we have. And I should indicate that those are clinical faculty that for the most part are volunteers. They are working with us, working with our students in clinical situations, but they are in a zero pay situation. This is extremely important to our program. We have approximately four individuals that are in the clinical faculty track.

We have about 470, and this has been roughly the same for the last decade, undergraduate and professional students. At the undergraduate degree we offer basically two degrees: the main degree is the five-year B.S. in Pharmacy; and then we also have -- and this is a trend as I think you will see in a minute in Pharmacy -- we offer the post-B.S. Doctor of Pharmacy degree, which is a five plus two configuration. We have a very active graduate program with approximately 90 graduate students. We have a small Pharm.D. program, as I indicated, and offer all of the graduate degrees up through the Ph.D. degree.

I think that a couple of things should be said in terms of trends in Pharmacy. There is an increasing emphasis on communication in Pharmacy, as there is an increasing need to provide drug information to patients and to other health professionals. This is then in addition to the traditional dispensing function of the College of Pharmacy. This is a clinical function, patient-oriented. Our curriculum has been and will be modified to reflect this. This means that we are going to have to pay more attention to communication skills among our graduates. We are going to have to be more concerned about the experiential component that they are participating in. And, we are going to have to be concerned that we are moving from more general practice type study to more specialized opportunities for individuals as the amount of knowledge in these areas simply goes out of bounds.

Next, I would like to show you how we are doing with regard to admissions and where our students are coming from. Again, we have a very good situation in Pharmacy. I don't think we have reached the point where we have a problem with accessibility, but you can see that we have a very high ratio of applicants to individuals that are enrolled in the College and that is increasing. We also are seeing an increase in the quantitative measures in terms of the abilities in the students that are coming into the program. You can see that a majority of our students are Ohio residents. We have roughly an appropriate distribution in terms of gender. We have an inappropriate situation with regards to diversity and that is something that we are working on as part of our affirmative action plan.

We also have in Pharmacy a tremendous amount of diversity in terms of career opportunities. And I want to indicate that because a lot of times people don't really realize the breadth of this. Our Pharmacy students have a great diversity of career paths and
opportunities. The majority of our students are still going into the top category: Community Pharmacy and Institutional Pharmacy. I would say approximately 90% of our students go in that direction. This requires an entry level degree of either a bachelor's degree, an entry level Pharm.D., which a number of institutions are adopting, or a post-B.S. degree, either M.S. or Pharm.D., plus licensure. But in addition to that, about 10% of our graduates end up in public pharmacy, industrial pharmacy, or academic pharmacy. Here we are talking about advanced degrees, in many cases a Doctor of Philosophy Degree.

Mr. Teaford:

What does industrial pharmacy mean?

Dr. Cassady:

Well, for example, if someone left with a Ph.D. and went to work with Upjohn or Lilly or one of the pharmaceutical companies or one of the chemical companies. Many of our Ph.D. graduates go into chemistry and other areas.

I think one of the trends that we are seeing in Pharmacy is that there is a change in the demographics. This is similar, in a sense, as to what is happening or happened in Agriculture, and it is because of economics. And I will talk a little bit about some of the pressures of economics. But there is a move from the traditional independent, community pharmacy to small chains and large chains -- corporate pharmacy. I think we are seeing that because of the economic difficulty of making a business go when you are in a small configuration. This is something that, obviously, we have to be concerned about as we establish our curriculum and educate our students.

I think you might be interested in the impact of our undergraduate alumni. We currently have about 3,000; we have 600 graduate alumni. And, currently, almost the majority, two-thirds of our alumni practice pharmacy in Ohio. Twenty-five percent of the pharmacists in the State of Ohio graduated from The Ohio State University.

I want to switch a little bit now to the graduate area and just give you some figures. In order to carry out a graduate program, one has to be able to attract support and I wanted to show you and give you a perspective on that. This is a five-year time frame. You can see that we have a significant amount of support in excess of $2 million and growing each year -- coming both from federal and non-federal sources. My analysis of this is that we are static in this area, and we need to do something to move this forward at an accelerated rate. I think this is something that will come out of our planning process and the opportunity that we have because of the opportunity to grow with the expanded facilities that we have.
December 2, 1988 meeting, Board of Trustees

REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady: (contd)

Now this is a perceptual — I want to emphasize this is one Dean's perception. But I think that most people that you would talk to would agree with this and this is based to some extent on quantitative measures. The top comprehensive colleges of pharmacy in the United States are public colleges of pharmacy. If you look at the top fifteen colleges of pharmacy, and Ohio State is certainly within that group, in my opinion, all of the Big 10 colleges of pharmacy are included within that group. So, we have a very competitive situation with regard to the Big 10 in terms of colleges of pharmacy. I think you can see where we rate. One thing that you have to look at is the B.R.S.G. rank, it is a rank based on the amount of NIH support that these colleges obtain. But, it is not monitored or modified based on the number of faculty. So, for example, the University of California at San Francisco, which is number one in terms of NIH funding, you should realize has 70 faculty in comparison to our 35 faculty. So there are some differences in the size of these programs.

Mrs. Bowser:

They don't have any B.S. degree either? Is that right, they don't do any undergraduate work?

Dr. Cassady:

Which one are you talking about?

Mr. Teaford:

California at San Francisco.

Dr. Cassady:

There are really three basic configurations that these colleges are going to and I think that is something that is certainly of importance to us. There is a trend, as I indicated, toward the Doctor of Pharmacy degree. Some of the colleges have moved to entry level Doctor of Pharmacy degrees and have left behind and eliminated the five-year Bachelor of Science in Pharmacy. Some schools have gone to a situation where they have both and some schools have gone to a situation where they have all three. You can see that there is some controversy and debate about exactly what should be done. Currently, Ohio State University has the five-year B.S., the post-baccalaureate Pharm.D., and the Ph.D., but we do not have a six-year entry level Pharm.D. You can see that some of the major schools have only the entry level Pharm.D., and this is certainly something that we need to keep an eye on.

I think you can see that another factor is being at a major medical center and there are a number of other considerations that went into this. But I think that we feel that we are in the top fifteen, that we are competitive in the Big 10, and we feel that we can certainly move to the top tier of these universities in the next ten to fifteen years.
I think as we position ourselves for the future and as we go into strategic planning, we have to be concerned with some of the dramatic changes that are occurring that impact on all of our areas and certainly on Pharmacy. I have divided some of these areas that we are considering now as part of our strategic planning into economic, social, and technological courses of change. I think that change is good, and in fact, Clark Kerr had a quote which I think was meaningful to me. He indicated that, "change comes more from spawning the new than reforming the old." I think that is something that we need to keep in mind as we look at the development of our programs. We want to build from excellence, but we also want to think about moving to frontier areas when they are apparent. We want to orient our research to solve real world problems. And I think this is consistent with the type of institution where our College is placed. I also believe, and I think most of the individuals in the College believe, that the most significant research problems that are present today in our area are occurring at the interface of disciplines. And in order to address some of these problems, we need to take interdisciplinary approaches.

I am not going to have time to go into detail on a number of these, but I'll put these up and if some of you are interested in more detail at some point I would be happy to discuss this with you. In the area of economics in the health care industry, we have a number of impacts. The structure of the health care delivery system is changing dramatically. We are talking about third parties, rather than just two parties being involved in this process. Manpower is a tension in the health sciences. As I indicated there is a shortage of manpower in Pharmacy and Nursing. However, if you look at the other health sciences like medicine and dentistry, this is not the case at the present time. This produces a tension among the professional areas. There is an extreme pressure on cost effectiveness and cost accountability. And in some cases the attempt to meet this criteria has led to a problem in balancing economics in quality health care.

There are also tremendous social courses of change and factors. And this influences the role of Pharmacy, in terms of how the pharmacists operate. And I alluded to that when I indicated that the pharmacists are becoming more clinically oriented and less drug product oriented. There is a tremendous dynamic in the area of health care for the elderly. Eleven percent of our population consumes 25% of our pharmaceuticals. This percentage of the population is rapidly growing. It is estimated by somewhere around 2020 or 2030 that this will double, and this group of individuals will double in size. This has great significance in terms of research and practice, in terms of educating our pharmacists and our researchers to identify problems in this area. Diseases of life-style are a tremendous problem that need to be addressed. I've just indicated three in this area that at least partially fit in the areas of diseases of life-style. We need to take this into consideration when we're thinking about the types of research programs that we want to develop and the type of curriculum
that we have. I think that when you look in terms of some of the
diseases of life-style, you find that in some cases prevention is a
much more attractive approach than treatment. And the pharmacists
needs to think in terms of prevention in their practice, as well as
therapy. And this gets into the area of education.

Now, another area that I indicated is an extremely dynamic area that
effects almost all of our programs at Ohio State is the area of
technology. I have divided it into three major areas: instrumen-
tation; dramatic advances in the way we can diagnose, treat, and
carry out research -- I will try and illustrate a few of these. The
area of computers has an impact on both pharmacy and research, and I
just indicated two areas. Computer-assisted pharmaceutical
services, not just robotics, but moving artificial intelligence and
we need to be very concerned about the developments in that area.
Computer assisted drug design -- a fundamentally different approach
to the drug discovery which is complementary to the classical
screening approach.

Here I have biotechnology, novel therapeutic products, delivery
systems, and research techniques. In the area of biotechnology we
currently have ten products on the market that are products of
biotechnology. There are a hundred products in development and it
is estimated within ten years we will have 25-50% of the pharma-
tceutical products that will be products of biotechnology. This has
extreme implications for pharmacy.

I want to show you just a couple of what I would call molecular
advances. I won't go into all of the examples, but I do want to
show you one of the things that we are doing. There are extremely
dramatic changes and instrumentation that are allowing us to look at
structure at a very, very microscopic level. This is an example of
looking at a very small benzene molecule, and you can see the
molecule. So, you are at the point where you can use a scanning,
tunnelling, electron microscope and now see things at the molecular
level. This is now going to move to the biological matrix and we'll
be able to see, at molecular resolution, some of these biological
systems which at the present time are black boxes. This type of
research is the type of research that we should be doing at Ohio
State University because it is frontier research.

Drugs of the future -- as I indicated, there has been a transition
in this case. We still include all of these, among the drugs that
we utilize. But the big impact here is going to be the new
directions in drug delivery and therapy that occur as a result of
biotechnology.

I'm not going to be able to go into detail in this, but I just want
to show you that there is a number of important areas that we need
to deal with here: drug production and applications; novel drug
delivery systems; diagnostic and therapeutic immunology; and the
genetic phases of the disease state and gene therapy. This is going
to be an extremely important area. The ability to sequence genes,
to understand the genetic defects that lead to disease, to use that
in a diagnostic way, and then eventually to be able to treat genetic diseases by repair. This has implications that are not only scientific, but social and economic. We are going to go through a period of time where we are going to have to look at the ethics of this and there will have to be laws governing the production and use of these types of pharmaceuticals. We have to educate the pharmacists to be able to carry out this type of work in the future.

Finally, I would just like to say, as I indicated, that we are very concerned and feel that it is very important for us to move in the direction of interdisciplinary thrusts. We are in the process of planning and these are areas that we are considering and prioritizing. But these are some of the things that I feel that we can develop. As you see, we are going to be developing these with other disciplines: with Math and Physical Sciences; with the Computer Center using the supercomputer; Chemical Instrumentation Center; and very important to us, the College of Medicine, the Biotechnology Center, and the Cancer Center. We are beginning to develop these interfaces and, as you are probably aware, we are very heavily involved in the Cancer Research area. We see a very bright future at Ohio State moving into these disciplinary areas.

I would say that we are very good at Ohio State and feel that we are competitive with the top tier universities, but we do not feel that we are the best that we can be. That will be our objective. In conclusion, I would like to say that the faculty and I are involved in comprehensive planning that will establish these priorities and we will have a common goal to further develop the College as an innovation center for pharmacy education and research. Thank you.

Mr. Immke:

Thank you, John. Any questions or comments?

Mrs. Bowser:

I notice that your research grants have doubled. I don't remember what the time-frame was -- five years?

Dr. Cassady:

I don't think it was quite double. In 1983 we went from about $1.4 million and in 1987 we went to a little over $2 million. We are seeing a significant advance this year, which I did reflect in there. So, I think that we will be advancing. And I think that we have a lot more potential as the faculty grows and moves towards our new facilities to really begin to move up to that top tier of the top fifteen in terms of research.

Dr. Brand:

John is a little modest. He wouldn't say this, but one of the reasons why our grant activities have increased significantly is because of the grants John brought with him from Purdue.
December 2, 1988 meeting, Board of Trustees

REPORT ON THE COLLEGE OF PHARMACY (contd)

Dr. Cassady:

I did get my last one renewed a month ago.

Mr. Teaford:

You indicated that drugs are going to be the products of biotechnology. Is that fundamentally going to change the disciplines of your professors because of that?

Dr. Cassady:

It absolutely will, and this is where the planning process comes in. There is no way that we can be competitive and not develop linkages to other disciplines that are involved and also develop faculty with expertise in that area. And we plan to do that. In fact, this may be our first major development.

Mr. Teaford:

That to me is an astounding thing, to really change --

Dr. Brand:

That point can't be over emphasized. It is a small College, 35 faculty, but it's really our crucial linkage point among a number of colleges: medicine, biological sciences, agriculture, biotechnology. And it can act as a catalyst in bringing along multi-disciplinary work. I think that is one of the thrusts of the College and John gets credit for emphasizing that.

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on December 2, 1988, at 2:20 p.m. He requested the Secretary to call the roll.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

Mr. Immke:

I would like to make the following statement relative to some of the changes and activities that you have noted with respect to Board committee meetings.

For some time this Board has been considering making changes in its schedule, along with the Board Committee structure. As University Trustees we feel it is important from time to time for us to step back from the normal course and to engage in healthy self-assessment.

With the intent of enhancing the overall effectiveness of our committees, we have shifted from a committee of the whole structure to smaller, simultaneous committee meetings which will report to the
December 2, 1988 meeting, Board of Trustees

Mr. Immke: (contd)

entire Board at this regular meeting. It is expected that each committee will be able to thoroughly review matters of importance to the University and to discuss its deliberations with the full Board. Each committee will make appropriate recommendations to the Board for it to discuss and act upon. In addition, we have elected to revert back to a former practice of the Board of meeting for the full day on Friday, rather than following the schedule of Thursday afternoon/evening and Friday morning meetings which was adopted in the early 1980's.

It is hope that this modification of previous practice will facilitate the open and complete evaluation of all matters brought before the Board for its timely response and action.

--0--

DEVELOPMENT FUND REPORT

Mr. Kessler:

We talked about Development and we had Mr. Tobin in our Investments Committee meeting this morning. We had an update on the University Campaign, where the receipts and expectancies through October of this year were $319 million, which is 91% of our goal. Mr. Tobin indicated that everything was going along well. Weldon reported that there has been verification of the pledges and that all is well in terms of the money that has been reported. It has been documented, and should be received by the University. There has been no Development Board meeting since the last Board meeting.

--0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

Mr. Chairman and Members, in reporting for the Research Foundation, I would like to report that the Research Foundation Grants and Contracts for the month of October 1988 are shown in the Board agenda book. There are 93 awards listed which provide a gross income of $18.7 million.

Funding for the first four months of the fiscal year is about twenty percent ahead of the same period of the last fiscal year. Timing of awards from the U.S. Department of Labor and the Agency for International Development accounts for most of the growth.

Some of the highlights of the awards are:

* $1,000,000 award from the Department of Health and Human Services to Ronald Glaser of the College of Medicine to study the effect of stress on health.

* $1,000,000 award from the Department of Defense to Kenneth Waldron and Charles Klein of the College of Engineering for further development of the walking machine.

361
December 2, 1988 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

* $150,000 award from the U.S. Department of Education to Weldon Mathews of the Department of Chemistry for Fellowships in Chemistry.

* $120,000 award from the U.S. Department of Education to the Graduate School and the College of Medicine for a Summer Internship Program for Minority Undergraduate Students.

I wish to further report in our meeting yesterday afternoon that most of the members who were at the meeting were elated. And I would like to thank Dr. Jennings and this Board, that in the next thirty days most of the workers and associates at the Research Foundation will be moving to very fine quarters. They are very happy about it. I'm sure that will reflect on the work that they will be doing. At this time, I would rather turn the rest of the matter over to Jack Hollander to see if he wishes to amplify any of these points. Jack, do you have anything you want to add?

Dr. Jack Hollander:

Well, maybe a point or two. Mr. Barone mentioned that the awards are twenty percent ahead of the same period last year. When you are counting a small fraction of the year like that, you have to realize that the small number of large awards can very much affect the apparent growth at that time. These two awards that he mentioned, the Department of Labor and the Agency for International Development, the first of those is a $4.5 million renewal reward which the Center for Human Resources Research has received. That actually is a two-year award, so we won't be seeing that one next year. That is for the ongoing Longitudinal Survey of Labor Market Experience. The other one is an award from the Agency for International Development which is actually a five-year award -- $1.8 million. Also, a renewal to the College of Agriculture for study in manpower for Agricultural Development in Uganda. So, those are major awards and we won't be seeing that one again for five-years, because that is a five-year award.

I would like to point out, also, that most of the external support that we get goes for research, but Mr. Barone mentioned two awards that are interesting in that they support the teaching function at the University. He mentioned the $150,000 award from the Department of Education for Chemistry. The full title of that award is for "Competitiveness in Chemistry in the 21st Century." The purpose of that award is to help us recruit the very best graduate students in Chemistry. This particular amount will help to support ten pre-doctoral students, and I might mention also, that five of those ten are to be awarded to minority students. So, this kind of award also serves other very important functions, as well as the research function.

The other $120,000 from the Department of Education to the Graduate School and College of Medicine for Summer Internship Program, that is entirely for minority undergraduate students for nine-week internships for twenty-five minority students from 5 institutions.
Dr. Hollander: (contd)

Of course, we have to be frank about it, we would like to attract some of these students to come to Ohio State for graduate work. We hope that we can get the best of them to come back here for graduate school after they finish their undergraduate work. If they so choose, then these funds will also help us to provide stipend support for those students when they return to Ohio State as graduate students.

There is another award that Mr. Barone did not mention and I would just like to add -- $166,000, also from the Department of Education, for Supplemental Financial Aid for Graduate Students in Mathematics. So, I think these three awards do illustrate for you the importance of some of the external support for the educational and graduate programs, as well as the research awards which we more normally discuss. Thank you.

STRATEGIC PLAN FOR UNIVERSITY HOSPITALS

Mr. Teaford:

Let me start with a report on the Hospitals Board. All University Hospitals Board members were invited to attend the Executive Committee meeting of the Board on November 3, which was held just prior to the joint meeting with this Board.

The meeting began with Mrs. Bowser's report from the Strategic Planning Committee. In two separate meetings, members of that committee had carefully reviewed the Hospitals' capital plan to ensure that it supports future directions of Health Services, the College of Medicine, the Hospitals and the medical faculty as contained in our Strategic Plan. At the recommendation of the Strategic Planning Committee, we gave overall approval to the capital plan. We will continue to discuss priorities and funding, and will make adjustments if necessary. We agreed on the necessity of generating more public and private support for the medical center, although such support must not detract from support for the University as a whole.

We received reports from Dr. Mekhjian, the Hospitals' medical director, and Dr. Clausen, the Chief of Staff. We reviewed medical staff appointments and approved a Physician Extender application form, which will be used as a means of verifying their training and deciding which specific privileges will be granted. We received financial reports from the Hospitals and from the MedOhio network. We are pleased to report the MedOhio facilities are not only serving our three-part mission of teaching, research and patient care; they are also providing inpatient and outpatient referrals to University physicians and facilities, and operated for the first quarter of the fiscal year with a positive bottom line. That is so long as you don't count the capital -- I'd just like to clarify that. Needless to say, that was my editorial comment.
Mr. Teaford: (contd)

Hospitals Board members unanimously approved incorporation of the affirmative action policies of the College of Medicine and University Hospitals into the Medical Center's Strategic Plan. Following the Executive Committee meeting, Hospitals Board members met with the University Board of Trustees for a full review and discussion of the Strategic Plan. Presentations were made by Dr. Manuel Tzagournis, Vice President for Health Services and Dean of the College of Medicine; Dr. Ronald St. Pierre, Associate Dean and Chairman of the Medical Center's Strategic Planning Task Force; and Mr. James L. Nichols, the Hospitals' Interim Executive Director. Following the presentations there was a discussion of the Strategic Plan by the joint Boards. And as you know, at that time this Board indicated to the Hospitals Board that it was our intention to bring that strategic plan before us for adoption, if we want to adopt it. I might say that I think this strategic plan is a model for what we expect from all of the departments of this University. It is a superb job and I might say owes much of its genesis and much of the thing that has kept it going to my colleague, Mrs. Bowser. I think, frankly, without her pushing we would be still looking for it.

At this time, I want to just read the one-page strategy summary and then I would move that we adopt it. That summary:

"That we understand and work towards achieving the criteria which determine a top ten national medical school;

Recognize that substantial funding will be required to achieve top ten national ranking;

The major long-term source of increased funding will be extramural research grants, however initial resources of seed money could also include reallocation of present resources, normal income, program-focused state grants, and clinical hospital and practice plan income;

That we continue to foster an environment within The Ohio State University Hospitals and Clinics, which supports the College of Medicine's progress towards top ten status;

And, acknowledge that supporting the College of Medicine's goals will require that OSU Hospitals and Clinics and its medical staff become much more market responsive, cost competitive, and efficient."

That is the twenty-five words or less -- although it is a little bit more -- of this strategic plan. Mr. Chairman, I would move that this Board adopt that plan and require its fulfillment.
Synopsis: The Committee of the whole of the Board of Trustees recommends for approval the strategic plan for The Ohio State University Medical Center.

WHEREAS the Board of Trustees has requested the President to develop a strategic plan for The Ohio State University College of Medicine and The Ohio State University Hospitals and Clinic, collectively referred to as The Ohio State University Medical Center; and

WHEREAS such a plan was presented at a joint meeting of this Board and the Hospitals Board on November 3, 1988; and

WHEREAS during the review of the strategic plan it was agreed by Hospitals Board and this Board that the Affirmative Action plan for the College of Medicine and University Hospitals be incorporated as part of the strategic plan; and

WHEREAS at the November 3, 1988 meeting the Board of Trustees pledged to review the strategic plan and to take action on it at the December Board meeting:

NOW THEREFORE

BE IT RESOLVED, That the strategic plan for The Ohio State University College of Medicine and The Ohio State University Hospitals and Clinic, attached hereto, be approved and that the appropriate University officials undertake to fulfill its mandate.

(See Appendix V for complete text of Summary of Recommended Goals and Strategies for the College of Medicine and the Hospitals and Clinics, page 415.)

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning with the full committee in attendance. We did have the update on the University Campaign, which I mentioned earlier. We had an Endowment Investment Report, which showed the value of our investments totaling $250 million as of November 18. We had a discussion of the goals of the Endowment and the need for reviews of investment managers. We had a discussion on our hotel that we recently acquired and indicated that we will have a more thorough discussion on that at a later committee meeting.
Mr. Kessler: (contd)

And we also received the report of Ennis, Knupp & Associates, the investment consultants hired by the Board earlier this year to review the investment policies of the Endowment and make recommendations. This report was just received. We discussed it just generally and we are going to take it up at our next committee meeting in full review. We have also instructed the staff to mail this to all of the full Board, with a letter explaining, so that you will have a chance to be familiar with it before our next Board meeting.

That is the end of our report, unless either Mr. Berry or Mrs. Bowser have anything to add to it.

(See Appendix VI for complete text of The Ohio State University Endowment Summary, November 18, 1988, page 503.)

--0--

ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning the committee met and they recommended that the Board of Trustees of The Ohio State University strongly endorse the Strategic Planning initiative that is currently underway in the Office of Academic Affairs. The Provost's strategic planning and ongoing strategic thinking are essential components of The Ohio State University's continuing advancement into the top ranks of America's public universities.

I think that we had some very good discussion. As Joel said, the strategic planning of the Hospitals has really been a key point and we hope this will go on throughout the departments, so that we can move on to greater things at Ohio State University. Do you have anything to add, Joel?

Mr. Teaford:

Well, I think we should note that the strategic planning process is well into its early stages. I understand that there are a few tardy reports that are due actually on your desk right now and they are probably all over there. But, they are at the first stage and there will be hearings on them over the next few months. I think, particularly, if we are faced with some of the budget constraints which I fear, having these plans will greatly facilitate our making sound decisions about why we have to pick some things over others.

I think it is a very important and timely process that we are into.

(See Appendix VII for complete text of "Strategic Planning at The Ohio State University -- an Update," November 23, 1988, page 513.)
December 2, 1988 meeting, Board of Trustees

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

**GAR FOUNDATION**

Background

The GAR Foundation is situated within the law firm of Buckingham Doolittle & Burroughs in Akron. Lisle Buckingham, an Ohio State graduate (Arts and Science '68 and Law '71), is a trustee of the Foundation. The Foundation awards grants to higher and secondary educational institutions for programs promoting the private enterprise system. It also makes donations to the arts, to hospitals, and to civic and social agencies. Its assets are more than $120 million.

The resolution requested by GAR, submitted to the Board, is a precondition for release by the Foundation of a $25,000 gift to the University. It is hoped that the receipt of this gift from the GAR Foundation would represent the beginning of a constructive relationship between The Ohio State University and this Foundation. The GAR gifts have historically been restricted to the Akron area.

**GAR FOUNDATION**

Resolution No. 89-63

Synopsis: The Academic Affairs Committee recommended the approval of the procedure which will allow for the acceptance of a gift from the GAR Foundation.

BE IT RESOLVED, That the funds received by the Board of Trustees of The Ohio State University from the GAR Foundation for endowment, unless otherwise specified by the Foundation, shall be held with the principal thereof neither to be invaded nor encumbered and only income therefrom to be utilized and that the Foundation be furnished yearly a copy of the audit report certifying that the principal is intact and only income is being distributed; and

BE IT FURTHER RESOLVED, That the foregoing resolution shall not be rescinded, amended, changed, annulled or revoked without the prior consent of the GAR Foundation.

Upon motion of Mrs. Bowser, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

**PERSONNEL ACTIONS**

Resolution No. 89-64

Synopsis: The Academic Affairs Committee recommended the approval of the following Personnel Actions.
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the November 4, 1988 meeting of the Board, including the following Appointment of Directors to Center and Hospitals, Leaves of Absence Without Salary, Professional Improvement Leave—Change of Dates, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved November 3, 1988, by the Hospitals Board be ratified.

Appointment of Directors to Center and Hospital

October 1, 1988 through September 30, 1990

Center for African Studies

Isaac J. Mowoe

November 1, 1988 through June 30, 1989

Veterinary Hospital

John A. E. Hubbell

Leaves of Absence Without Salary

BRUCE S. GROWICK, Associate Professor, Department of Educational Services and Research, effective Winter Quarter, Spring Quarter and Autumn Quarter 1989, to assume the position of Director of the Rehabilitation Division of the Industrial Commission of Ohio.

JOANNE H. TURNER, Assistant Professor, Academic Faculty of Accounting and Management Information Systems, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, for personal reasons.

Professional Improvement Leaves—Change of Dates

HOWARD A. I. NEWMAN, Professor, Department of Pathology, change leave from September 1, 1988, through August 31, 1989, to October 1, 1988, through September 30, 1989.

Emeritus Titles

KENNETH W. REISCH, College of Agricultural Administration, with the title Associate Dean Emeritus, effective January 1, 1989.

DAVID L. MEEKER, School of Music, with the title Director and Professor Emeritus, effective January 1, 1989.

GOODWIN F. BERQUIST, Department of Communication, with the title Professor Emeritus, effective January 1, 1989.

S. EARL BROWN, Department of Geography, with the title Professor Emeritus, effective January 1, 1989.

PHILIP S. JASTRAM, Department of Physics, with the title Professor Emeritus, effective January 1, 1989.

MASAO KINOSHITA, Department of Architecture, with the title Professor Emeritus, effective January 1, 1989.
December 2, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

ALBERT J. KUHN, Department of English, with the title Professor Emeritus, effective January 1, 1989.

EMIL M. MIKOLAJCIK, Department of Food Science and Nutrition, with the title Professor Emeritus, effective January 1, 1989.

MARGARET T. NISHIKAWARA, Department of Physiology, with the title Professor Emeritus, effective January 1, 1989.

BOBBY DALE VANSTAVERN, Department of Animal Science, with the title Professor Emeritus, effective January 1, 1989.

VIRGINIA E. YAGELLO, University Libraries, with the title Professor Emeritus, effective January 1, 1989.

PAUL G. ALTHOUSE, Department of Animal Science, with the title Associate Professor Emeritus, effective January 1, 1989.

DONALD L. DUNCAN, Department of Art Education, with the title Associate Professor Emeritus, effective January 1, 1989.

DAVID H. NOYES, Department of Physiology, with the title Associate Professor Emeritus, effective January 1, 1989.

ELLEN D. TELLER, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective November 1, 1988.

ROY L. BUTLER, National Center for Research and Vocational Education, with the title Senior Research Specialist - Vocational Education Emeritus, effective January 1, 1989.

WAYNE E. SCHROEDER, National Center for Research and Vocational Education, with the title Senior Research Specialist - Vocational Education Emeritus, effective January 1, 1989.

SHIRLEY A. CHASE, National Center for Research and Vocational Education, with the title Research Specialist II - Vocational Education Emeritus, effective January 1, 1989.

Medical Staff—Appointments

ROBERT S. MIGGANTZ, DMD, Limited Staff, General Dentistry.

E. MITCHEL OPREMACAK, M.D., Attending Staff, Ophthalmology.

PATRICIA C. TEMPLE, M.D., Courtesy Staff, Pediatrics.

JOHN C. MYERS, M.D., Limited Staff, Division of Thoracic & Cardiovascular Surgery.

Upon motion of Mr. Barone, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
RESOLUTIONS IN MEMORIAM

Resolution No. 89-65

Synopsis: The Academic Affairs Committee recommended the approval of the Following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Frank T. Gaumer

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 19, 1988, of Frank Thomas Gaumer, Associate Professor Emeritus in the School of Journalism.

Born July 22, 1913, in Marysville, he graduated from Marysville High School in 1931. He attended Denison University for three years before transferring to The Ohio State University where he earned a B.S. in journalism in 1935 and a M.A. in 1965. He served in the U.S. Army Air Force from 1943-44.

Professor Gaumer was raised in the newspaper business, his father having been owner of the semi-weekly Union County Journal in Marysville. He became editor of the paper upon graduation in 1935, and continued until 1950. Professor Gaumer was an editor and publisher of the Marysville, Ohio, Journal-Tribune, before he joined the faculty as a journalism lecturer in 1960, advising the Lantern. He later taught courses in journalism law, reporting, editing, graphics, and typography until he retired in 1980. Upon his retirement, he was named Associate Professor Emeritus.

Professor Gaumer knew the "back shop" as well as the "front office" of the newspaper. He was thoroughly versed with the operation of the printing equipment, as well as being able to handle any editorial assignment, reporting, advertising layout, and sales.

He was past president of the Marysville Chamber of Commerce and the Union County Historical Society and was a member of the Society of Professional Journalists. He was a long-time member of the First Presbyterian Church of Marysville, serving as deacon, trustee, and Ruling Elder.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Professor Gaumer. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Richard A. Miller

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on October 19, 1988, of Richard Arthur Miller, Professor in the Department of Architecture.

Professor Miller was born on June 27, 1925, in Sheboygan, Wisconsin. After studying architecture at the Taliesien Fellowship of Frank Lloyd Wright, he
RESOLUTIONS IN MEMORIAM (contd)

Richard A. Miller (contd)

graduated magna cum laude from Harvard College in 1949 and in 1952 he earned a Master of Architecture from the Harvard Graduate School of Design.

After practicing architecture in Elyria, Ohio, from 1953 to 1957, he assumed a position with Architectural Forum, an internationally known architectural journal published by Time Inc. Between 1957 and 1963, he served as associate editor and then senior editor of this journal.

From 1963 until 1978, he practiced architecture in his firm of Westermann/Miller Associates. Among his major architectural designs are the Yale University Health Services Building, New Haven, Connecticut; the Smith College Center for the Performing Arts, Northampton, Massachusetts; the Silverstein Pavilion of the Hospital of the University of Pennsylvania, Philadelphia; and the North Central Bronx Hospital for the City of New York.

Professor Miller's teaching career began with a one-year adjunct appointment at The Ohio State University in 1960, at which time he and his students completed a project that served as the major impetus for the renovation and preservation of German Village. Between 1961 and 1979, he established and served as the Director of the Graduate Program in Health and Hospital Planning in the School of Architecture at Columbia University.

In 1979, Professor Miller accepted a position on the faculty of the Department of Architecture at The Ohio State University, where he was teaching at the time of his death. One of the first projects that his students completed upon his return to Ohio State was a Visual Arts Center for the University. This project figured significantly in the subsequent international competition which led to the design of the Wexner Center for the Visual Arts.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Professor Miller. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Aldrich Syverson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 18, 1988, of Aldrich Syverson, Professor Emeritus in the Department of Chemical Engineering.

A native of Minnesota, Dr. Syverson attended the University of Chicago and received his B.Ch.E. in 1938, and his Ph.D. in 1942 from the University of Minnesota. He joined the B. F. Goodrich Chemical Company in 1942, where he contributed to the development of synthetic rubber for military use during World War II, and subsequently became the founding plant manager of the Avon Lake Experimental Station. He later served as the Director of Research for the O. M. Scott Company from 1959–60.

Prior to joining the Chemical Engineering faculty at The Ohio State University in 1950, he taught for two years at Syracuse University. He served as the Chemical Engineering Department Chairman from 1967 to 1976 and
December 2, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Aldrich Syverson (contd)

was active in faculty governance, serving on a wide range of academic committees both locally and nationally.

Dr. Syverson played an important role in the use of computers in the design and development of chemical processes. He served as a consultant to a number of industrial firms in this area and in the area of chemical reaction kinetics and catalysis.

Dr. Syverson was honored as the Columbus Technical Council Man of the Year in 1974, and was elected to the rank of Fellow in the American Institute of Chemical Engineers. Upon his retirement in 1977, he was named Professor Emeritus.

Sy was a respected teacher and a true gentleman. He enjoyed working with young people and helping them to develop their fullest potential. Through his dedication to excellence in teaching, research and public service both his profession and his university have gained much and will miss his clear insights.

On behalf of the University, the Board of Trustees wishes to express its deep sympathy to Aldrich Syverson's wife, Eleanor, and his children, Elizabeth and William and their spouses, his beloved grandchildren and his brother and sisters. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Ms. Casto:

The Student Affairs Committee received a report this morning from Vice Provost Russ Spillman. Basically, what he did for us was to outline all the different departments that are within Student Affairs -- twelve different departments. And then we went into greater detail about our dormitories and food services.

I don't know if you have anything more to add to that, but I was very pleased about where we are headed with the improvements that we have made in these facilities. Does anybody have any questions? They have gone into a process of updating it over the last ten years, cleaning and painting, and they have actual specifications for the quality that they want and the living conditions among the students. I was quite pleased.

I would like to call on Steve Dibert for the Interprofessional Council Update --
Mr. Steve Dibert:

Good afternoon. The Interprofessional Council has been busy lately investigating several issues that have been brought to us by our constituency. The Interprofessional Athletic Council representative, along with some other Interprofessional students, have been examining the OSU ticket policy and why it is that professional students do not move up in priority consistent with moving up in rank. They do not move up, for example, as undergrads do. As a freshman, one moves up in priority as you move up to a sophomore, junior, senior -- this is not done with professional students and we are looking into that.

In another area of concern, the law students anticipating the expansion of the Law School Building are having some concern with the fifty parking spaces that will be eliminated there. The concern is being pursued through the Traffic and Parking Committee by the Interprofessional Representative.

Finally, it was of concern to veterinary students, med students, and optometry students who purchased books from the OSU Medical Bookstore on Neil Avenue that perhaps the markup on these books was inconsistent with policies across University campus. It was felt that since no competition existed in the area, the bookstore had some sort of a free hand in setting the price. I pursued this matter personally, since I paid $120.50 for a pathophysiology book last Spring. I discussed this matter to see if this was in fact the case. I talked to Robert Carlson, OSU Bookstore Director, and he went over the pricing policies and assured me that the policy was uniform throughout Campus. He also mentioned that the OSU Bookstore Manager from last year is no longer with us, and I should expect the new Manager to be more cooperative and sensitive to professional students' needs. I will keep you informed on any new developments in these areas.

Getting on to the matter of the student to sit on the Board of Trustees -- the three student governments have been working closely together developing the final criteria to interview the fifteen candidates that we currently have to narrow down to five for the Governor. I was very pleased to have received over twenty applications from professional students for this position. Although only representing about 5% of the population on campus, the professional student applications accounted for over 40% of the final applications received. It is encouraging and I believe the campus should take note that the professional students are not taking a passive role in the future of this University.

Thank you for your time and if anyone has any questions, I'll be happy to answer them now. Happy holidays and I will see you next year.

President Jennings:

Any particular sporting event that you are talking about tickets for?
December 2, 1988 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Teaford:

It's basketball, Mr. President.

Ms. Casto:

Roger Musgrave is going to give us a report on CGS.

Mr. Roger Musgrave:

Good afternoon. I wish I could honestly tell you that I missed you all last month, but I was in linen pants and a mesh shirt at a research conference in New Orleans. So, I won't tell you I missed you.

The Council of Graduate Students hosted the Regional National Association of Graduate Students Conference on campus, the second weekend in November. We think it was very successful. The presentations stimulated quite a bit of spirit in the discussion and some pretty important networking occurred. We had thirty-five graduate students from twelve different universities in our region in attendance. And while that number doesn't on its face appear to be impressive, it is my understanding that it a larger attendance than they had at the first national meeting a couple of years ago. So, the organization is growing and Ohio State's graduate students are trying to stay a relatively large force in it. Registration fees paid for most of it. It just about covered itself. We would like to express our appreciation to our Graduate School and the American Association of University Professors for helping us cover the small remaining costs we had.

Next year's regional conference will probably be at Notre Dame or the University of Toledo. This year's national, in March, will be at the University of Miami, Florida. Six delegates from the Council of Graduate Students will be attending there trying to get our proposal excepted for Ohio State to host the national in 1990.

Plans are now complete for the first in a series of TA fora to occur this Winter and Spring. It is being cosponsored by the Center for Teaching Excellence, our Graduate School, the Council of Graduate Students, and, possibly, the Undergraduate Student Government. It will be relatively similar to the faculty forum series that has occurred, but with primary focus on issues strictly of concern to Teaching Associates. We want to thank Chris Jones at the Center for Teaching Excellence, who is a Research Associate for TA Development, for doing a lot of work on it. The first one will take place January 17, from 7:00-9:00 p.m. in Stillman Hall. The title of it will be, "Keeping All the Balls in the Air -- Juggling the Multiple Roles of the TA." And committed to that panel so far is Dean Koenigsknecht, Professors Pilotta, and Jamie Cano, and Jeffrey Leptak, and one other TA, who has not yet been determined.

Luke Evans, our vice president, is hard at work on plans for the Third Annual Graduate Research Forum. Things are looking fairly good, although we are still being challenged to replace the $5,000 cut from our requests to the Council on Student Affairs Allocations
December 2, 1988 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

Committee. One way or another we will make it, because it is important enough for us to find someway to do it.

CGS wishes to express its gratitude, one last time, to Julie Franklin, our graduate student in physics, who worked so hard for graduate students the last two or three years. It has come the time when Julie needs to pay back a little bit of the time to her own research and study that she has been borrowing against. So, she is giving up the Chair of our Federal, State and Local Affairs Committee to Terry Krukemyer, who is a graduate student in Agricultural Economics and Rural Sociology. Terry is, I think, as energetic as Julie was, and will do an excellent job. He is looking forward to jumping into determining how CGS and graduate students can aid in some way the University's efforts at getting a favorable budget allocation next year.

The Council of Graduate Students spent a large part of its last meeting in a discussion of the issues which need to be addressed this coming year, now that we don't need to spend so much time on taxes. Among the items identified as major concerns were Traffic and Parking issues, especially the proposal for turning the area from 17th to 19th Avenues into a pedestrian campus. It's of concern, largely because there are a lot of physical sciences buildings there where graduate students are enrolled. They essentially are required to work evenings and nights in those buildings, because of apparatus they can't take home, as I can take my books home. Folks are asking and we will continue talking to folks, but people want to be assured that safety issues will be taken into account very seriously.

Questions were raised about the Brutus Registration System. Is it time yet to take a very intense look at how it is serving the groups that it is suppose to serve? For example, how does someone conducting research elsewhere register for their dissertation hours? And in effect, is a long distance phone call required, which is really an extra registration fee?

There is still a great deal of dissatisfaction among members with the coverage we seem to manage to get with our Group Student Health Insurance. And questions are being raised whether or not folks at the University have ever considered approaching other large student groups, nationally, to develop a larger group to have a little bit more leverage in trying to negotiate a group insurance plan.

As David indicated last month, CGS is still very concerned about day care issues, child care issues, and whether the problems in this area have a disproportionate negative effect on women wishing to return to graduate school.

I will end this list with work and study space for graduate students. Because you often can hear the question, "where do graduate students manage to study." The number of carrells we have available in our library system really isn't adequate for a graduate program a quarter of our size. And work space is also an issue that

375
Mr. Musgrave: (contd)

we would like to see continually addressed. We realize the kind of pressure that we have on our space, and yet we still see people asked to behave professionally while they are working in a room with twenty-five and thirty other people sometimes.

Unless there are questions, I will close and wish you a Happy Holiday Season from CGS and Happy New Year.

Ms. Casto:

Thank you. USG Update by Athena Yiamouyiannis --

Ms. Athena Yiamouyiannis:

Mr. Chairman, Mr. President, Members of the Board of Trustees, good afternoon. I would like to begin my report on the Undergraduate Student Government by bringing you up-to-date on the Financial Aid Survey that the Undergraduate Student Government did. The purpose of the survey was to find out what problems students are encountering with the financial aid process and how the Undergraduate Student Government can work to improve the relations. We polled 225 students and compiled the results and are working on making final revisions on the copy before we will be distributing the final report to all the Members of the Board next week.

We met with Mary Haldane, who is the Director of Financial Aids and have worked to host a workshop in January to help students. This is one of the visible things that we would like to do and we are still working at trying to get some of the other things ironed out as well.

To update everyone on the Board of Trustees' Interviewing Committee Process, which Steve has talked about; I am the Chair of the Committee and things are going very well. We have talked about criteria, the role of a student trustee on the Board, as well questions that we are going to be asking the candidates. The interviewing will take place during the end of finals week, Wednesday, Thursday, and Friday, and our final process will be wrapped up on that Friday night. So, on Monday morning we will be submitting the names and we will be making the deadline of December 15.

Earlier this month, I attended a President's Breakfast with President Jennings, and I really enjoyed it. There was ample opportunity for students to present some of their concerns or problems or suggestions for the University as a whole. Later that day, I was talking to a student of mine about the President's Breakfast and he had the opportunity the year before to attend a President's Breakfast, as well. His name is Dave Moore and he is a blind student and he had made a suggestion about Disability Services needing a computer terminal or some type of additional gadget. Two weeks later it appeared there, and he was very pleased. I just wanted to say thank you. I would like to encourage these, we did them last year, we are doing them this year, and I would definitely encourage them to continue in the future.
Ms. Yiamouyiannis: (contd)

USG's Chairman of the Council of Presidents, Lora Stilke, held the first meeting for the Council of Presidents on November 29. Her goal as Chair was to bring together the presidents of all the student organizations to exchange ideas and knowledge and to be able to work together as a unit. The meeting went very well and it looks like we have a strong interest. We will be continuing this program Winter and Spring Quarter, as well.

Along with this program, where student leaders are getting together and discussing issues, I attended a Student Involvement on Racism Task Force last week, which was very informative. First of all, to get racism wiped out on campus we have to educate the leaders and this is a starting point. In addition to educating the leaders, they can bring this information back to their groups and we can expand outward from there. The group looks like it's not going to be a passive group, we are going to get out there and do things. We are planning on a few events, visible events, in Winter and Spring Quarter as well.

This brings up a concern that USG is going to be looking into. The University, as a whole, has been doing a very good job in affirmative action, striving for more equality, more diversity on campus, but a concern that I have is with women's issues. A letter from Diana Hulick, which appeared in the newspaper today, brought up some concerns about minority and women's issues compared on the campus as a whole. A couple of weeks ago, I had received this letter and referred it to Paulette Foss, who is in a cabinet position for Women's Affairs, and asked her to look up some things that the letter was talking about. She came up with some facts that I wasn't aware of and I guess it is common knowledge, but I would like to bring up to the Board. Especially, when we are talking about the extremely low numbers of female professors here at the University. When I heard the figures, I was very surprised and think this is something the University, as a whole, should strive to improve in the future. The number of current faculty members or current full professors are 6.8%, compared to the 92.3% male professors. I would think that this is something we would definitely want to look into. We will be getting back to you with additional information on this as well.

Well, the quarter is almost over, today is the last day of classes, and next week is finals week. One of our last projects for the year is going to be Textbook Traders, which is running from December 5-8, and next Quarter from January 3-6. This project is where students can come and sell their books and buy their books at prices that they set themselves.

The last thing that I would like to mention is something that we are doing over the break. On December 28, we are holding a conference where student government leaders from around the State will be working on the lobbying effort for the Biennium Budget. We are going to have a few guest speakers come in for that.

I would like to thank you and answer any questions at this time.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Dr. Brand:

Athena, I agree with you about the problem of women faculty members. Just to put a perspective on the issue though, and to add something to the data base, we are first or second in every category in the percentage of women faculty members, including full professors, in the Big 10. We are also near the bottom in the number of women who teach in the University who are not on tenure track faculty, which is a traditional area of abuse. So, yes we need to do a better job, but we also -- the context is that Ohio State is working hard on this issue, as well as other affirmative action issues.

Ms. Yiamouyiannis:

Thank you and Happy Holidays.

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mr. Teaford:

Today we discussed the Cooperative Extension and OARDC budget requests that were given to the Board of Regents. And just to briefly summarize the requests that were prepared, the University requested a 34.6% increase in Cooperative Extension and a 33.3% in OARDC. I might point out that the Regents have respectively recommended a 15% and a 9% increase. We need to see this in terms of the fact that basically the funding from the State and Federal Government over the last four year is basically level. Which we all know means down.

We discussed, in particular, I think, the need to broaden the base of support for those two line items of the budget. They so often are limited simply to farmers and their admittedly related parties and that is by no means what the programs of the Cooperative Extension and the OARDC are involved in. When you see the topics like agricultural profitability, water quality, family strength, youth development, food processing, what you are really seeing are the same priorities there as in the State in general. It is clear that there is an uphill struggle on this budget, as there is with all the rest. I think that the Committee is very comfortable with that. Dr. Hutchinson and his staff are doing a superb job in advancing those two line items.

That basically is my report, Mr. Chairman. Unless anyone wants to add to that.

Mr. Immke:

Any questions or comments?
December 2, 1988 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

President Jennings:

I wasn't there, but I want to emphasize the urban nature of a lot of the Cooperative Extension today. Yes, it is providing information to the farming community and agricultural community, but it is also performing a function that it has historically performed; namely, teaching individuals about life and about the tools of living. And that is going on in the urban communities. One of the amazing affirmative action successes is in 4-H in the State of Ohio. That is not only becoming urban, but I think, Fred, 16% are minorities today in 4-H, and becoming more so. Fred and Bobby are working very hard to increase their urban participation of the 4-H activity.

Mrs. Bowser:

We need to try and get some of that money.

Mr. Teaford:

We need to make sure that the General Assembly appreciates that.

President Jennings:

We hope that they appreciate a lot of things about The Ohio State University.

---0---

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

The Fiscal Affairs Committee received a report this morning from Mr. Ihrig on the Biennium Budgets and Capital Plans Budget request for the 1988-1990 academic year. (See Appendix VIII and Appendix IX for complete text of the Capital Budget Request and 1989-91 Biennial Budget Activities and Plans, pages 533 and 549.)

In addition, to this report the Committee is recommending the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Background

SUMMARY FOR OCTOBER 1988

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>93</td>
<td>$18,691,780.33</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>92</td>
<td>$597,199.00</td>
</tr>
<tr>
<td>Total</td>
<td>185</td>
<td>$19,288,979.33</td>
</tr>
</tbody>
</table>

379
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

Background (contd)

SUMMARY FOR OCTOBER 1988 (contd)

The Ohio State University Development Fund

Establishment of Named Funds

The Marilyn R. Hathaway Education Scholarship Fund
(Scholarships for junior, senior, or post-baccalaureate students in teacher certification programs) Minimum $1,350,000.00

The Joseph G. Svehla Technical Book Fund
(Purchase technical books for the University's Library) $50,000.00

The W. E. "Bill" Stuckey Memorial Fund
(Development of Action Programs in the area of farm, home, fire and traffic safety) $15,000.00

Change in Name and Description of Named Fund

From: Ralph and Ruth Haignere Rose Student Nurse Scholarship Fund
To: The Ruth Haignere Rose Student Nurse Scholarship Fund
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Federal Research Contracts/Grants


$1,545,245.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Acquired Immunodeficiency Syndrome Clinical Study Group, Department of Internal Medicine (R. J. Fass), 1 September 1988 through 31 August 1989. (Project 766341 - Continuation)

$1,035,798.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Stress: Impact on the Immune-Endocrine Axis and Health, Department of Microbiology and Immunology (M. R. Glaser), 15 September 1988 through 30 September 1989. (Project 767005 - New)

$1,010,487.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and C. Gonzalez-Vega), 1 August 1988 through 31 December 1990. (Project 763301 - Continuation)

$1,000,000.00 - Department of Defense, Defense Advanced Research Projects Agency, Arlington, Virginia, Development of an Advanced Ground Mobility System (AGMS), Department of Mechanical Engineering (K. J. Waldron) and Department of Electrical Engineering (C. A. Klein), 1 April 1988 through 31 January 1989. (Project 766670 - New)

$511,500.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Administration of the Ohio Sea Grant Program, Center for Lake Erie Area Research (J. M. Reutter and M. Brainard), Department of Agricultural Economics and Rural Sociology (A. J. Randall and L. J. Hushak), Department of Zoology (D. W. Garson), Department of Civil Engineering (K. W. Bedford, J. G. Lyon and M. R. McCord), Department of Welding Engineering (C. L. Tsai), School of Natural Resources (R. W. Fortner), and Cooperative Extension State Operations (J. D. Rohrer), 1 September 1988 through 31 August 1989. (Project 767010 - New)

$368,970.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Services to Deaf-Blind Children and Youth -- Technical Assistance to States, College of Education -- Administration (T. M. Stephens), 1 October 1988 through 30 September 1989. (Project 766294 - Continuation)
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$323,987.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Investigation of Problem-Solving and Man-Machine Systems, Department of Pathology (J. W. Smith and M. S. Kennedy), Department of Industrial and Systems Engineering (P. J. Smith), and Department of Computer and Information Science (B. Chandrasekaran), 1 July 1988 through 30 June 1989. (Project 766119 - Continuation)

$237,812.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Phase Ib Clinical Trial of Immunotherapy with Interleukin-2 Alone or in Combination with Adoptive Transfer of Cytotoxic Cells, Department of Internal Medicine (J. J. Rinehart and P. Triozzi), 30 September 1987 through 31 January 1989. (Project 766420 - Continuation)

$227,946.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Modification of Diet in Renal Disease (MDRD) Study, Department of Internal Medicine (L. A. Hebert), 30 September 1988 through 31 May 1989. (Project 766873 - New)


$197,083.00 - Department of Energy, Idaho Falls, Idaho, Installation and Evaluation of a Nuclear Power Plant Operator Advisor Based on Artificial Intelligence Technology, Department of Mechanical Engineering (B. K. Hajek and D. W. Miller), 30 September 1988 through 31 August 1989. (Project 767097 - New)

$174,489.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Antidepressant Drugs in Treatment of Anxiety Disorders, Department of Psychiatry (M. R. Mavissakalian), 1 September 1988 through 31 August 1989. (Project 7657097 - New)

$166,272.00 - Department of Education, Washington, D.C., Supplemental Financial Aid for Graduate Students in Mathematics, Department of Mathematics (J. R. Leitzel), 1 January 1989 through 31 December 1989. (Project 767099 - New)

$164,762.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preteaching Strategy Research, College of Education - Administration (T. M. Stephens), 1 October 1988 through 30 September 1989. (Project 767101 - New)

December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$125,179.00 - Department of Energy, Idaho Falls, Idaho, Development of an Empirical Model for a Steam Driven Emergency Core Cooling System for an Inherently Safe Reactor and a Dynamic Methodology for System Reliability Assessment, Department of Mechanical Engineering (R. N. Christensen and T. Aldemir), 30 September 1988 through 31 August 1989. (Project 767093 - New)

$120,000.00 - Department of Education, Washington, D.C., Summer Internship Program for Minority Undergraduate Students, Graduate School Administration (J. D. Dickerscheid) and Graduate School Administration and Department of Physiological Chemistry (K. S. Pyant), 1 October 1988 through 30 September 1989. (Project 767125 - New)


$104,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Derivatives of Boranes, Possible Metal Boride and Boron Nitride Precursors, Department of Chemistry (S. G. Shore), 1 February 1989 through 31 January 1990. (Project 766948 - Continuation)

$101,602.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Signal Transduction in Gastrointestinal Neurons, Department of Physiology (J. D. Wood) and Department of Pharmacology (R. H. Fertel), 30 September 1988 through 31 August 1989. (Project 768006 - New)

$94,499.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Peptide Regulation of the HPA Axis in Major Depression, Department of Psychiatry (R. S. Jaeckle), 1 September 1988 through 31 August 1989. (Project 767045 - New)

$87,057.00 - Department of Education, Office of Special Education and Rehabilitation Services, Chicago, Illinois, Training Grant in Physical
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Medicine and Rehabilitation, Department of Physical Medicine (E. W. Johnson), 1 October 1988 through 30 September 1989. (Project 767118 - New)

$84,575.00 - Department of Health and Human Services, Public Health Service, Food and Drug Administration, Rockville, Maryland, Reproductive Toxicology Models for Testing Gossypol Metabolites and Covalently-Bound Residue, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 30 September 1988 through 30 June 1989. (Project 767113 - New)

$77,552.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Individual Faculty Scholar Award in Schizophrenia, Department of Psychiatry (J. A. Coffman), 30 September 1988 through 30 June 1989. (Project 768004 - New)

$70,000.00 - National Science Foundation, Washington, D.C., The Role of Calcium in Root Growth and Gravitropism, Department of Botany (M. L. Evans), 1 November 1988 through 31 October 1989. (Project 765780 - Continuation)

$68,004.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Proposal to Study Crystallization of the Glassy Grain Boundary Phase in Silicon Nitride Ceramics, Department of Materials Science and Engineering (C. H. Drummond and W. E. Lee), 15 October 1988 through 30 September 1989. (Project 766445 - Continuation)

$66,778.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Parent-Child Conversation: A Longitudinal Project for Research into Intervention with Language-Delayed Handicapped Children, Nisonger Center (J. MacDonald), 1 October 1988 through 30 September 1989. (Project 764417 - Continuation)

$61,142.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Integrating an Organized Approach to Funding Information with an Online Library Catalog and Remotely-Searchable Bibliographic Data-bases, University Libraries (V. M. Tiefel), 1 November 1988 through 31 October 1989. (Project 766415 - Continuation)


$50,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, High Strain Rate Characterization of Ceramics in Shear, Department of Engineering Mechanics (A. Gilat), 15 September 1988 through 13 June 1989. (Project 767094 - New)

December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$44,483.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Microstructural Characterization of Intermetallic Matrix Ceramic Particulate Composites, Department of Materials Science and Engineering (W. E. Lee and M. D. Drory), 1 October 1988 through 30 September 1989. (Project 767100 - New)

$39,956.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Scattering from Parabolic Antennas, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 15 September 1988 through 14 September 1989. (Project 767088 - New)

$39,930.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, The Evaluation of Coatings and Lubricants for Increased Service Lives of Die Casting Dies, Engineering Experiment Station (T. Al tan) and Department of Industrial and Systems Engineering (R. L. Lewis), 1 October 1988 through 30 September 1989. (Project 767083 - New)

$39,900.00 - National Science Foundation, Washington, D.C., Spectroscopic Observations of Active Galactic Nuclei, Department of Astronomy (B. M. Peterson), 1 May 1989 through 30 April 1990. (Project 766292 - Continuation)

$32,000.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Moorestown, New Jersey, Cooperative National Plant Pest Survey and Detection Program (Ohio Plant Pest Survey), Cooperative Extension State Operations (H. R. Willson), 1 October 1988 through 30 September 1989. (Project 767104 - Continuation)

$30,000.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Structural Genes Important for Viral Replication in the Nucleopolyhedrosis Virus of the Gypsy Moth, Department of Molecular Genetics (P. S. Perlman), 15 September 1988 through 30 September 1990. (Project 768003 - New)

$29,458.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stereochemistry of Enzyme Reactions to Phosphorus, Department of Chemistry (M. D. Tsai), 1 July 1987 through 30 November 1988. (Project 762722 - Continuation)


$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Linguistics (M. E. Beckman), 1 September 1988 through 28 February 1990. (Project 766861 - New)

### Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
<th>Principal Investigator</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>$17,100.00</td>
<td>National Aeronautics and Space Administration, Washington, D.C., High Temperature Superconducting Thin Film, Department of Electrical Engineering (G. J. Valco)</td>
<td>G. J. Valco</td>
<td>1 October 1988</td>
<td>30 September 1989</td>
</tr>
<tr>
<td>$13,476.00</td>
<td>Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Comparison of Materials for Hybrid III Ribs, Department of Mechanical Engineering (J. A. Collins)</td>
<td>J. A. Collins</td>
<td>1 September 1988</td>
<td>31 March 1989</td>
</tr>
<tr>
<td>$10,000.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Documentation of Ice Shapes for the Helicopter Icing Flight Test Program, Department of Aeronautical and Astronautical Engineering (J. D. Lee)</td>
<td>J. D. Lee</td>
<td>1 December 1988</td>
<td>30 November 1989</td>
</tr>
<tr>
<td>$9,737.00</td>
<td>Environmental Protection Agency, Chicago, Illinois, Acid Deposition Monitoring Program for Western Lake Erie, Center for Lake Erie Area Research (J. M. Reutter)</td>
<td>J. M. Reutter</td>
<td>1 July 1988</td>
<td>30 June 1989</td>
</tr>
<tr>
<td>$9,703.00</td>
<td>Department of Defense, Maryland Procurement Office, Fort George G. Meade, Maryland, Microwave Antenna Technology, Department of Electrical Engineering, ElectroScience Laboratory (R. C. Rudduck)</td>
<td>R. C. Rudduck</td>
<td>1 August 1988</td>
<td>31 October 1988</td>
</tr>
<tr>
<td>$5,400.00</td>
<td>National Science Foundation, Washington, D.C., Phylogeny and Speciation in Polygonella (Polygonaceae), Department of Botany (D. Crawford)</td>
<td>D. Crawford</td>
<td>1 November 1988</td>
<td>31 October 1990</td>
</tr>
</tbody>
</table>

**TOTAL - FEDERAL AWARDS**

$15,783,761.00

### State of Ohio Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
<th>Principal Investigator</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>$84,477.00</td>
<td>State of Ohio, Department of Education, Columbus, Ohio, A Community-Based Network to Assist Handicapped Youths' Transition from School to Work: A Four-Part Model, The National Center for Research in Vocational Education (R. D. Ryan)</td>
<td>R. D. Ryan</td>
<td>1 September 1988</td>
<td>31 August 1989</td>
</tr>
<tr>
<td>$49,979.70</td>
<td>State of Ohio, Department of Mental Health, Columbus, Ohio, Linkage Between Modules of Peace Education Curricula and Mental Health in Adolescents, Marion Campus and Department of Psychology (D. J. Christie)</td>
<td>D. J. Christie</td>
<td>1 August 1988</td>
<td>30 June 1989</td>
</tr>
</tbody>
</table>
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$43,848.00</td>
<td>State of Ohio, Department of Education, Columbus, Ohio, Handicapped Personnel Preparation Intervention Assistance Teams, College of Education - Administration (T. M. Stephens), 1 September 1988 through 31 August 1989. (Project 767059 - Continuation)</td>
</tr>
<tr>
<td>$26,275.00</td>
<td>State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Residential Needs of Individuals with Moderate, Severe, Profound Mental Retardation/Substantial Developmental Disability (MSPMR/SDD) in Ohio -- Validation of the Turner Bond Data, Nisonger Center (S. R. Schroeder and J. Rojahn), 1 August 1988 through 30 September 1988. (Project 767095 - New)</td>
</tr>
<tr>
<td>$20,000.00</td>
<td>State of Ohio, Department of Health, Columbus, Ohio, Nursing Child Assessment Satellite Training (NCAST): A Workshop for Baby-Minded Professionals, Nisonger Center (E. King), 1 April 1988 through 31 December 1988. (Project 767116 - New)</td>
</tr>
<tr>
<td>$615.00</td>
<td>State of Ohio, Department of Education, Columbus, Ohio, Southwest Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick) and Department of Educational Studies: Humanities, Science, Technological and Vocational (A. J. Miller), 1 July 1988 through 30 June 1989. (Project 766226 - Continuation)</td>
</tr>
</tbody>
</table>

TOTAL - STATE OF OHIO AWARDS $ 225,194.70

Industrial Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$153,548.50</td>
<td>E. R. Squibb and Sons, Princeton, New Jersey, Evaluation of the Safety and Efficacy of Zofenopril Calcium Therapy in Patients with Chronic Heart Failure, Department of Internal Medicine (C. V. Leier), 1 January 1988 through 30 June 1989. (Project 767122 - New)</td>
</tr>
<tr>
<td>$57,726.00</td>
<td>Earth Resources, Limited, Silver Spring, Maryland, Impact of Friction Reduction Additives on Corrosion, Contamination and Interaction with Other Additives in District Heating System, Department of Chemical Engineering (J. L. Zakin), Department of Metallurgical Engineering (B. E. Wilde), and Department of Mechanical Engineering (R. N. Christensen), 15 September 1988 through 14 September 1989. (Project 767071 - New)</td>
</tr>
<tr>
<td>$30,840.00</td>
<td>The Procter and Gamble Company, Cincinnati, Ohio, Bacteremia Clinical Study, Oral/Maxillofacial Surgery (L. J. Peterson), 15 August 1988 through 15 August 1989. (Project 767105 - New)</td>
</tr>
<tr>
<td>$28,234.00</td>
<td>The Conover Company, Limited, Omro, Wisconsin, Developing a Reasoning Skills-on-the-Job Series, The National Center for Research in</td>
</tr>
</tbody>
</table>
Industrial Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Description</th>
<th>Principal Investigator</th>
<th>Start Date</th>
<th>End Date</th>
<th>Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vocational Education (R. D. Ryan), 1 October 1988 through 30 April 1989.</td>
<td>R. D. Ryan</td>
<td>1 October 1988</td>
<td>30 April 1989</td>
<td>$20,754.00</td>
</tr>
<tr>
<td>(Project 767128 - New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$20,754.00 - AT&amp;T Bell Laboratories, Columbus, Ohio, Improving Oral/Aural</td>
<td>R. M. Kantor</td>
<td>1 October 1988</td>
<td>30 June 1989</td>
<td>$6,700.00</td>
</tr>
<tr>
<td>Skills of Non-Native Speakers of English in the Work Setting Through Group</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work and Individualized Tutorial, Department of English/Second Language</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$6,700.00 - Norwich-Eaton Pharmaceuticals, Inc., Norwich, New York, A</td>
<td>C. M. Kunin</td>
<td>21 April 1988</td>
<td>20 April 1989</td>
<td>$86,055.00</td>
</tr>
<tr>
<td>Double-Blind, Multicenter Study to Compare the Safety and Efficacy of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrofurantoin Controlled Release Capsules, 100 mg, Twice a Day for Seven</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Days to Macrodantin Capsules, 50 mg, Four Times a Day for Seven Days in the</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment of Urinary Tract Infections, Department of Internal Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Project 767106 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$6,700.00 - University of Texas, Dallas, Texas, Yeast Mitochondrial DNA</td>
<td>P. S. Perlman</td>
<td>1 September 1988</td>
<td>31 August 1989</td>
<td>$109,303.00</td>
</tr>
<tr>
<td>Recombination, Department of Molecular Genetics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$109,303.00 - University of Chicago, Argonne, Illinois, Optical Readout</td>
<td>T. A. Romanowski</td>
<td>1 August 1988</td>
<td>31 December 1988</td>
<td>$43,525.00</td>
</tr>
<tr>
<td>System for the ZEUS Barrel Calorimeter, Department of Physics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$86,055.00 - University of Chicago, Argonne, Illinois, Optical Readout</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System for the ZEUS Barrel Calorimeter, Department of Physics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$63,078.00 - Fifteen Members of the National Entrepreneurship Education</td>
<td>R. D. Ryan</td>
<td>1 July 1988</td>
<td>30 June 1989</td>
<td>$35,941.00</td>
</tr>
<tr>
<td>Consortium, National Entrepreneurship Education Consortium, The National</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center for Research in Vocational Education (R. D. Ryan)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$43,525.00 - Fifteen Members of the National Entrepreneurship Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consortium, National Entrepreneurship Education Consortium, The National</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center for Research in Vocational Education (R. D. Ryan)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$35,941.00 - Helen Keller National Center for Deaf-Blind Youth and Adults,</td>
<td>K. D Arnold</td>
<td>1 October 1988</td>
<td>30 September 1989</td>
<td>$454,017.50</td>
</tr>
<tr>
<td>Sands Point, New York, Technical Assistance to Helen Keller Center,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education Administration and School of Health, Physical Education and</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recreation (K. D. Arnold)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL - INDUSTRIAL AWARDS $ 454,017.50

Other Non-Federal Research Contracts/Grants

<table>
<thead>
<tr>
<th>Description</th>
<th>Principal Investigator</th>
<th>Start Date</th>
<th>End Date</th>
<th>Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,687,000.00 - National Association of Regulatory Utility Commissioners,</td>
<td>D. N. Jones</td>
<td>1 September 1988</td>
<td>31 August 1989</td>
<td>$109,303.00</td>
</tr>
<tr>
<td>Washington, D.C., The Research and Assistance Plan and Budget for the</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Regulatory Research Institute: The Business Plan for Fiscal Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1989, National Regulatory Research Institute (D. N. Jones), 1 September</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988 through 31 August 1989. (Project 765272 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$106,055.00 - University of Chicago, Argonne, Illinois, Optical Readout</td>
<td>T. A. Romanowski</td>
<td>1 August 1988</td>
<td>31 December 1988</td>
<td>$43,525.00</td>
</tr>
<tr>
<td>System for the ZEUS Barrel Calorimeter, Department of Physics (T. A.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Romanowski), 1 August 1988 through 31 December 1988. (Project 767107 - New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effect of Smokeless Tobacco on the Postnatal Development of the Mouse and</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rat, Oral Biology (R. B. Paulson), 1 January 1989 through 31 December 1989</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Project 767102 - New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL - INDUSTRIAL AWARDS $ 454,017.50
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$32,890.00 - American Heart Association, Dallas, Texas, Endothelial Transport of Macromolecules: Structural Studies, Department of Anatomy (J. M. Robinson), 1 September 1988 through 30 August 1989. (Project 767081 - New)

$31,460.00 - American Heart Association, Dallas, Texas, How Do Actin and Gap Filaments Align at the Facia Adherens?, Department of Veterinary Anatomy (M. Yamaguchi), 1 October 1988 through 30 September 1989. (Project 766328 - Continuation)

$30,665.00 - Southwest Research Institute, San Antonio, Texas, Hydrogen Absorption and Potential Embrittlement of Candidate High-Level Nuclear Waste Package Containers in the Proposed Tuff Repository Environment, Department of Materials Science and Engineering (B. E. Wilde), 1 September 1988 through 31 December 1988. (Project 767087 - Continuation)

$21,000.00 - Upper Arlington City Schools, Upper Arlington, Ohio, Upper Arlington-Ohio State Middle School Project, School of Health, Physical Education and Recreation (M. O'Sullivan), 30 August 1988 through 8 June 1989. (Project 767129 - New)

$15,762.00 - Ohio Cancer Research Associates, Columbus, Ohio, Evaluation of Proton-Nuclear Magnetic Resonance Spectroscopy as an Indicator of Tumor Burden, Department of Internal Medicine (B. C. Behrens), 1 July 1988 through 30 June 1989. (Project 768005 - New)

$10,187.50 - Columbus Zoo, Powell, Ohio, Cooperative Grants Program -- The Columbus Zoo and The Ohio State University, Department of Psychology (S. T. Boysen), Department of Entomology (J. D. Briggs, W. A. Foster, G. R. Needham and D. L. Wrensch), and Department of Zoology (J. D. Harder), 1 October 1988 through 30 September 1989. (Project 767089 - New)

$10,000.00 - Martha Holden Jennings Foundation, Shaker Heights, Ohio, Science Is Fun: A Hands-On Middle School Science Program, Mansfield Campus and Department of Chemistry (J. Z. Tarino), 1 October 1988 through 30 September 1989. (Project 767110 - Continuation)

$8,376.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 767080 - New)

$7,576.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, The Indonesia Second University Development Project -- JMO Support Office, Office of International Affairs (D. G. McCloud), 27 January 1987 through 31 December 1991. (Project 766028 - Continuation)

December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$5,000.00 - American Dietetic Association Foundation, Chicago, Illinois, Forecasting in Foodservice: Model Development, Testing and Evaluation, Department of Human Nutrition and Food Management (J. L. Miller), 1 September 1988 through 30 September 1989. (Project 768000 - New)

$5,000.00 - Danforth Foundation, St. Louis, Missouri, Leadership and World Affairs: A Survey of Youth Leadership Programs, Mershon Center for Education (R. B. Woyach and M. G. Hermann), 1 October 1988 through 30 November 1989. (Project 767086 - Continuation)

$4,000.00 - International Center for Industry, Labor and Rehabilitation, Dublin, Ohio, Identification of Risk Factors for Work Disability in Workers Over 45 Years of Age, Department of Preventive Medicine (M. L. Moeschberger), 1 May 1988 through 30 November 1988. (Project 767098 - New)


$2,736.00 - University Space Research Association, Houston, Texas, USRA Aeronautics Pilot Program, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 August 1987 through 31 October 1988. (Project 766447 - Continuation)

$2,580.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1989. (Project 765208 - Continuation)

$2,100.00 - Ohio Pork Producers Council, Westerville, Ohio, Evaluation of Milk Replacer in the Diets of Suckling and Early-Weaned Pigs: Effects on Survival, Growth Rate and Economy of Gain, Department of Animal Science - OARDC and Cooperative Extension State Operations (G. C. Shurson), Animal Industries Technology (S. M. Neal), and Department of Animal Science - OARDC and Department of Animal Science (K. M. Irvin), 1 November 1988 through 31 October 1989. (Project 767108 - New)


$1,900.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder), 1 October 1987 through 30 September 1988. (Project 766094 - Continuation)
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$1,100.00 - American Association for Clinical Chemistry, Inc., Washington, D.C., The Effect of Aerobic Training on Renal Function, Proteinuria, and the Glomerular Basement Membrane Anionic Charge Sites in the Obese Zucker Rat, School of Allied Medical Professions (K. M. Ward), 1 September 1988 through 31 August 1989. (Project 767109 - New)

$500.00 - American Council of Learned Societies, New York, New York, Leibniz: Tradition and Actuality, Mansfield Campus and Department of Philosophy (G. Hartz), 1 October 1988 through 31 December 1988. (Project 767092 - New)

TOTAL OTHER NON-FEDERAL AWARDS $ 2,228,807.13

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$10,000.00 - Thomas A. Edison Program, Columbus, OH, "Direct Cast Steel Strip," Department of Materials Science and Engineering, 1 October 1988 through 31 December 1988. (529783)

$3,818.00 - Ohio Coal Development Office, Columbus, OH, "Sulfur Release from Ohio Coals and Sorbent Kinetics in Pulverized Coal Flames," Department of Mechanical Engineering, 1 October 1988 through 31 December 1988. (529780)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $ 13,818.00

Industrial and Other Sponsored Research and Development

$99,774.00 - In additional funding from Edison, Rochester, NY, "Research and Development of Images System for Recognition of Fingerprints," Department of Welding Engineering, 1 October 1987 through 30 September 1989. (529740, Ext. 1)

$52,000.00 - General Electric, Cincinnati, OH, "Testing of Engine Simulator in a Model of Quantas Airways Ltd., Test Cell," Department of Aero/Astro Engineering, 1 October 1988 through 2 December 1988. (312481)

$50,648.00 - from 53 sponsors of 72 development projects in five departments/research areas of the College.

$50,000.00 - EMTEC, Kettering, OH, "Fractography Atlas for Cast Aluminum and Ferrous Components," Department of Materials Science and Engineering, 1 October 1988 through 30 September 1990. (312483)

$37,811.00 - In matching funds from ICRA, Inc., New York, NY, "Thermal Characteristics of Copper Alloy Tooling in Plastic Molding," Department of Mechanical Engineering, 1 July 1988 through 30 June 1990. (529762, Ext. 1)

$36,000.00 - Embassy of Egypt, Washington, DC, "Peace Fellow - Foud F. Aly, Nasser F. El-Shafey and Magdi M. Wahba," Department of Civil Engineering, 1 October 1988 through 31 March 1990. (312477)
Industrial and Other Sponsored Research and Development (contd)


$25,000.00 - McDonnell Douglas, St. Louis, MO, "Functional Reasoning," Department of Computer and Information Science, 1 September 1988 through 31 August 1989. (529782)

$25,000.00 - Edison Welding Institute, Columbus, OH, "Characterization of Polymers in the Vicinity of Welded Joints," Department of Chemical Engineering, 1 October 1988 through 30 June 1989. (529337)

$25,000.00 - EMTEC, Kettering, OH, "Dimensional Control in the Investment Casting Process," Department of Materials Science and Engineering, 1 October 1988 through 30 September 1989. (312482)


$20,000.00 - Bell Helicopter, Fort Worth, TX, "Gear Noise Modeling and Prediction for BHTI Future Attach Rotocraft Transmission," Department of Mechanical Engineering, 15 September 1988 through 15 March 1990. (312476)


$12,000.00 - Embassy of Egypt, Washington, DC, "Peace Fellow - Amer A. El-Kattan," Department of City and Regional Planning, 1 October 1988 through 31 March 1990. (312478)

$10,000.00 - from various industry for membership in the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529200)

December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$9,310.00 - Engineering and Economics Research, Inc., Vienna, VA, "Research Fellowship," Department of Industrial and Systems Engineering, 1 October 1988 through 30 June 1989. (529781)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 583,381.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Marilyn R. Hathaway Education Scholarship Fund

The Marilyn R. Hathaway Education Scholarship Fund was established December 2, 1988, by the Board of Trustees of The Ohio State University in consideration of gifts to be received by The Ohio State University Development Fund from the estates of Marilyn R. Hathaway (B.S.Ed. '73, M.A. '77) and/or her mother, Emily L. Hathaway, both of Cincinnati, Ohio.

All gifts not otherwise designated which are received from the estates of Marilyn R. Hathaway and/or her mother, Emily L. Hathaway, are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income attributable to such gifts following their receipt by The Ohio State University shall be used to provide scholarships for junior, senior, or post-baccalaureate students in teacher certification programs. Selection shall be made by the Dean of the College of Education or his/her designee in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Joseph G. Svehla Technical Book Fund

The Joseph G. Svehla Technical Book Fund was established December 2, 1988, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Joseph G. Svehla, Jr., (B.M.E. '31, B.E.E. '31, M.S. '34), formerly of New Buffalo, Michigan.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to purchase technical books for the University's library. Of the fund's annual earnings, 30 percent shall be
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Joseph G. Svehla Technical Book Fund (contd)

used to purchase books specifically for the use of electrical and mechanical engineers. The remainder of the annual earnings are to be used to purchase technical books related to engineering, economics, mathematics, chemistry, physics, nuclear physics, astrophysics and astronomy.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The W. E. "Bill" Stuckey Memorial Fund

The W. E. "Bill" Stuckey Memorial Fund was established December 2, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Ohio Farm and Home Safety Committee, the Stuckey family and friends to honor Professor Emeritus W. E. Stuckey (B.S.Agr. '33, M.S. '44) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income from this fund shall be used for the development of action programs in the area of farm, home, fire and traffic safety. Dispersal of the funds will be made by the Director of the Ohio Cooperative Extension Service (or his/her designee) with direct input from the Ohio Farm and Home Safety Committee. The major thrust will be the conservation of life and property through:

1. Grants to individuals and groups for the development of safety projects and programs;
2. Scholarships to students for safety education and research;
3. Promotion and diffusion of timely safety information;
4. Special funding to organizations for the development and distribution of package programs in safety.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer who is then directly responsible for the College of Agriculture in order to carry out the desire of the donors.

394
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name and Description of Named Fund

The Ruth Haignere Rose Student Nurse Scholarship Fund

The Ralph and Ruth Haignere Rose Student Nurse Scholarship Fund was established June 11, 1986, with funds donated December 5, 1985, by Ruth Haignere Rose (B.S.Ed. '40, Certificate of Graduate Nursing '40) and contributions by Ralph Rose (B.Cer.E. '42). The name and description were revised December 2, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income is to be used for tuition and incidental fees for the College of Nursing by qualified undergraduate Black students who are citizens of the United States and who have financial need. They must agree to sponsor another student nurse in their lifetime. Such is not the responsibility of The Ohio State University, but it is incumbent upon the award recipient. The selection of the recipients is to be made by the chairperson of the Affirmative Action Committee for the College of Nursing at The Ohio State University in conjunction with the regular selection committee for nurses and in cooperation with or with the approval of the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever in the College of Nursing as directed by the Board of Trustees, with preference being given to recommendations from the Dean of the College.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-66

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for October 1988.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from
December 2, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

the Engineering Experiment Station and The Ohio State University Development Fund during the month of October 1988 be approved.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

Employment of an Architect/Engineer and Request for Construction Bids Aviation Academic Facility

Background

Aviation Academic Facility

The Department of Aviation has a very successful academic program to prepare students for aviation careers and to conduct research in aircraft operations and safety. The Department's academic facilities currently are located at the University Airport at Don Scott Field. Academic offices and classrooms are housed in the old Department of Transportation hangar (occupied by the Department of Aviation in 1973) and the Airport Administration Building (occupied by the Department in 1967).

Those academic offices, however, have become inadequate due to increased enrollment and need to be expanded and modernized. Moreover, there is a need to relocate these academic facilities to the central campus area to ensure greater faculty accessibility to students, reduce commuting time for students, staff, and faculty, and provide more efficient facility scheduling. Because of this, the University proposes to construct a new two-story facility east of, and connected to, the north wing of Koffolt Laboratories at 140 West 19th Avenue.

The total estimated cost for this project is approximately $1,257,000. The University has obtained a grant from the Federal Aviation Administration for 90% ($1,007,000) of this cost; the remaining 10% ($250,000) will be provided from University funds. At this time, authorization is requested to select an architectural/engineering firm to prepare the plans for the project, request construction bids, and award contracts for construction of the facility. (See Appendix X for the map, page 633.)

EMPLOYMENT OF AN ARCHITECT/ENGINEER AND REQUEST FOR CONSTRUCTION BIDS AVIATION ACADEMIC FACILITY

Resolution No. 89-67

Synopsis: The Fiscal Affairs Committee recommended authorization to employ an architectural/engineering firm and request construction bids.

WHEREAS The Ohio State University has obtained a grant from the Federal Aviation Administration to provide 90% funding ($1,007,057.00) for a new two-story facility which will be constructed east of and connected to the north wing of Koffolt Laboratories, to provide administrative and academic space for the Department of Aviation; and
December 2, 1988 meeting, Board of Trustees

EMPLOYMENT OF AN ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
AVIATION ACADEMIC FACILITY (contd)

WHEREAS the remaining 10% ($250,000.00) of this project will be funded from University funds, for a total project cost of $1,257,057.00:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and administration be authorized, in accordance with established University procedures, to select a qualified architectural/engineering firm to prepare the plans and specifications for this project, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS
Resolution No. 89–68

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of the award of contracts for the projects listed below to the lowest responsive and responsible bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administration, Division of Public Works, the award of contracts for the following project:

VETERINARY HOSPITAL
UPGRADING LABORATORY ANIMAL FACILITIES

Description: This project upgrades the quality of the laboratory animal facilities used by the College of Veterinary Medicine located on the ground floor of the Veterinary Hospital for both animal care and research, including containment capabilities for working with pathogenic agents for large and small animals, barrier maintained areas and special needs areas to support the surgery programs. Construction is scheduled to begin in January 1989, and be completed in September 1989.

General Contract

Date Received: September 14, 1988

No. of Bids: 4
December 2, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

VETERINARY HOSPITAL
UPGRADING LABORATORY ANIMAL FACILITIES (contd)

General Contract (contd)

<table>
<thead>
<tr>
<th>Low Bid</th>
<th>$ 408,000.00*</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Bid</td>
<td>$ 687,500.00*</td>
</tr>
<tr>
<td>Estimate of Cost</td>
<td>$ 645,700.00*</td>
</tr>
<tr>
<td>Awarded to</td>
<td>Concept Construction Co., Columbus, OH</td>
</tr>
</tbody>
</table>

Plumbing Contract

<table>
<thead>
<tr>
<th>Date Received</th>
<th>September 14, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids</td>
<td>2</td>
</tr>
<tr>
<td>Low Bid</td>
<td>$ 59,076.00*</td>
</tr>
<tr>
<td>High Bid</td>
<td>$ 73,912.00*</td>
</tr>
<tr>
<td>Estimate of Cost</td>
<td>$ 68,859.00*</td>
</tr>
<tr>
<td>Awarded to</td>
<td>Williamson Builders, Inc., Plain City, OH</td>
</tr>
</tbody>
</table>

HVAC Contract

<table>
<thead>
<tr>
<th>Date Received</th>
<th>September 14, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids</td>
<td>4</td>
</tr>
<tr>
<td>Low Bid</td>
<td>$ 254,800.00*+</td>
</tr>
<tr>
<td>High Bid</td>
<td>$ 402,404.00*</td>
</tr>
<tr>
<td>Estimate of Cost</td>
<td>$ 198,741.00*</td>
</tr>
<tr>
<td>Awarded to</td>
<td>Wayne Mechanical Inc./J. A. Guy, Joint Venture, Dublin, OH</td>
</tr>
</tbody>
</table>

Electric Contract

<table>
<thead>
<tr>
<th>Date Received</th>
<th>September 14, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids</td>
<td>4</td>
</tr>
<tr>
<td>Low Bid</td>
<td>$ 78,600.00*</td>
</tr>
</tbody>
</table>

*Recommended alternates reflected in these figures.

+HVAC Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
December 2, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

VETERINARY HOSPITAL
UPGRADING LABORATORY ANIMAL FACILITIES (contd)

Electric Contract (contd)

High Bid: $ 88,850.00*
Estimate of Cost: $ 86,085.00*
Awarded to: Avant Contractor Inc./Romanoff Electric, Joint Venture, Columbus, OH

Total All Contracts: $ 800,476.00*
Total Contingency Allowance: $ 61,694.17 (which is 7.7% of construction cost)
Total Project Cost: $1,000,000.00*
Funding: Federal Grant and University Funds

*Recommended alternates reflected in these figures.
(See Appendix XI for map on the Veterinary Hospital Upgrading Laboratory Animal Facilities, page 635.)

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to award contracts for the following project:

DOAN HALL - CHILLER STATION RENOVATION

Description: Due to the Health Science Center Medical Logistical (Infill) project currently under construction adding additional floors to Doan Hall, the present air cooled chiller plant located in Room N302 of Doan Hall must be relocated, once temporarily and then permanently. This project will avoid two relocations by eliminating the reciprocating air cooled chiller plant and providing chilled water for the critical Computer Room air conditioning from the Doan Hall penthouse by installing two chilled water pipes from the 12th floor to the 3rd floor. Construction is scheduled to begin November 1988, and be completed by February 1989.

Mechanical Contract

Date Received: October 5, 1988
No. of Bids: 4
Low Bid: $180,300.00*+

*Recommended alternate reflected in these figures.
+Mechanical Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
December 2, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

DOAN HALL – CHILLER STATION RENOVATION (contd)

Mechanical Contract (contd)

High Bid: $240,700.00*
Estimate of Cost: $165,000.00*
Awarded to: Farber Corp., Columbus, OH

Total All Contracts: $180,300.00*
Total Contingency Allowance: $18,030.00 (which is 10% of construction costs)
Total Project Cost: $215,293.50*
Funding: University Hospitals Funds

*Recommended alternate reflected in these figures.
(See Appendix XII for map on the Doan Hall Chiller Station Renovation, page 641.)

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

LEASE OF LAND TO THE CITY OF COLUMBUS
0.78 ACRES AT DON SCOTT FIELD

Background

The site consists of approximately 0.78 acres of land at the University Airport at Don Scott Field. Precise boundaries of the site have not yet been determined; they will be delineated in drawings prepared by the City of Columbus. The general site area is vacant land on the north side of Case Road, just west of the Airport Entrance Road.

Terms of the Lease Arrangement

The University proposes to enter into a long-term land lease with the City of Columbus for the site. The terms of the lease will be negotiated under Section 3334.11 of the Ohio Revised Code for a period of between 20-50 years with renewal options. The City of Columbus will be solely responsible for constructing, managing, operating and maintaining the facility. However, design plans for the facility and site development will be subject to
December 2, 1988 meeting, Board of Trustees

LEASE OF LAND TO THE CITY OF COLUMBUS
0.78 ACRES AT DON SCOTT FIELD

Background (contd)

University approval. The rental payment under the lease will be $1.00 per year.

Benefits of the Lease

Location of a new fire station on University property would be mutually beneficial to the University and current residents of the northwest area of Franklin County. Such an arrangement would enhance the safety of University buildings and equipment and provide a method for responding to aircraft emergencies, as well as to non-airport emergencies. The City of Columbus would train University personnel in aircraft rescue and fire fighting equipment in response to airport emergencies. A fire alarm enunciator panel and emergency alert phone would be installed in the fire station to shorten response time to such emergencies. (See Appendix XIII for map on the .78 Acre Parcel at Don Scott Field, page 645.)

LEASE OF LAND TO THE CITY OF COLUMBUS
0.78 ACRES AT DON SCOTT FIELD

Resolution No. 89-69

Synopsis: The Fiscal Affairs Committee recommended the lease of approximately 0.78 acres of University land at Don Scott Field for the construction of a fire station.

WHEREAS the City of Columbus proposes to construct a new fire station and is interested in leasing approximately 0.78 acres of land at the University Airport at Don Scott Field for this purpose; and

WHEREAS the City of Columbus will develop, construct, and operate the fire station; and

WHEREAS the location of this fire station will be mutually beneficial to the University and private properties in the northwest area of Franklin County; and

WHEREAS the appropriate University offices are in agreement as to the desirability of leasing this parcel of land for this purpose:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration, be authorized to negotiate, develop, and execute the proposed lease with the City of Columbus, upon such terms and conditions as are deemed to be in the best interest of the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
December 2, 1988 meeting, Board of Trustees

PURCHASE OF REAL PROPERTY -
1224 KINNEAR ROAD, COLUMBUS, OHIO

Background

Location and Description

The property consists of approximately 3.18 acres of developed land located at 1224 Kinnear Road in Columbus. There is a modern one-story brick and glass building, in excellent condition, that contains approximately 42,000 gross square feet. The property is bounded on the east and north by University property and is located east of the University's Research Center. The property is owned by Byers Realty, Inc.

Present Lease and Use

Pursuant to authorization by the Board of Trustees in October 1984 (Resolution No. 85-45), the University leased the property from Byers Realty. The lease term is five years, with one five-year renewal option. The rent is $7,500.00 per month ($90,000.00 per year). The lease contains an option for the University to purchase the building at a price of $750,000.00.

The University has used this leased building to provide space for tenants of The Ohio State University Research Park. Tenants include: Ohio Supercomputer Center, Advanced Computing Center for Art and Design, Whittaker Coatings, Inc., Ohio Radiological Health Program, and Mattson Instruments, Inc. Approximately 6,400 square feet (15%) of the building is vacant. Over the last four years, there has been extensive remodeling (totaling approximately $3.23 million) to the interior and exterior of the building. The University has paid approximately $1.8 million for renovation of the shell of the building and interior improvements not charged to tenants; there has been an additional $1.43 million in interior renovations charged to the building occupants.

The University's Research Park now is well established, and the University needs to acquire this building to provide permanent space for Research Park tenants.

Purchase Price and Appraisals

As noted above, the purchase price established by the option is $750,000.00. An MAI appraisal conducted by Nash-Wilson Associates, Inc., in November 1988, places the market value at $3,850,000.00. A separate MAI appraisal, done by Kohr Royer Griffith, Inc., in October 1988, places the property's market value at $3,200,000.00. (See Appendix XIV for map on Property at 1224 Kinnear Road, page 647.)

Resolution No. 89-70

Synopsis: The Fiscal Affairs Committee recommended the purchase of approximately 3.18 acres of land with improvements located at 1224 Kinnear Road, Columbus, Ohio.
December 2, 1988 meeting, Board of Trustees

PURCHASE OF REAL PROPERTY
1224 KINNEAR ROAD, COLUMBUS, OHIO (contd)

WHEREAS to provide additional land and facilities to accommodate organizations participating in The Ohio State University Research Park, the University, pursuant to authorization by this Board in October 1984 (Resolution No. 85-45), entered into a five-year lease with Byers Realty, Inc., for the land and building located at 1224 Kinnear Road in Columbus, Ohio; and

WHEREAS under the terms of this lease, the University has an option to purchase this property at a price of $750,000.00; and

WHEREAS the appropriate University officers have determined that the purchase of this property is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the Board of Trustees of The Ohio State University, the property at 1224 Kinnear Road, Columbus, Ohio, at a price not to exceed $750,000.00, upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Mr. Immke:

We will adjourn the meeting by wishing you all a very happy, healthy, and safe holiday season.

--0--

Thereupon the Board adjourned to meet Friday, February 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman

403
Page 404 is blank
APPENDIX III

ZONING OF THE COLUMBUS CAMPUS OF
THE OHIO STATE UNIVERSITY

(See page 342)
ZONING OF THE COLUMBUS CAMPUS OF
THE OHIO STATE UNIVERSITY

Briefing Report to the Board of Trustees

Background

In 1980, the Ohio Supreme Court ruled, in Brownfield v. State of Ohio, that State agencies "must make a reasonable effort to conform to the provisions of local land use regulations." In an effort to comply with that ruling, staff of The Ohio State University reviewed the Columbus Zoning Code and determined that no zoning district was contained therein appropriate to the uses usually found at a large educational and research complex. The staff then worked with City of Columbus staff to develop such a district for the Columbus Campus. The possibility of such a district had become part of the Columbus Zoning Code in 1986; it was designated the "University-College Research Park District." Early this year, the University applied for that zoning for the contiguous campus area north of King Avenue, west of North High Street, south of Ackerman Road, and east of North Star Avenue, an area consisting of about 1625 acres. Because of impending planning work, the Don Scott Field area was not included in the application.

Purpose

In applying to be zoned as a UCRP District, the University's intent was to seek zoning which would permit typical university and research park uses, while ensuring that the University and our tenants comply with the intent of the Ohio Supreme Court ruling, i.e., to assure that State agencies do not develop and use land entrusted to them with disregard for the potential impact of those developments and uses on neighboring property owners.

Permitted Uses

Within a UCRP District, all typical principal and support uses usually found on a major university campus or in a university-related research complex are permitted. In addition, prototype manufacturing is allowed as a usual use in a research institution. Moreover, certain uses are permitted upon issuance of a Special Permit by the Columbus Board of
Zoning Adjustment; these would include commercial, recreation, financial institutions, fuel/food/service stations, and restaurants - uses which may be justified because of their value in improving the quality of life in a research complex or on a university campus.

Restrictions

The UCRP District contains the usual site development regulations found in most zoning districts but, in this district, they are generally applied only within a 100-foot boundary area. In the core of the district, there are few restrictions because internal land uses have little impact on neighboring properties. In the 100-foot boundary area, any use established by the institution must take into consideration the standards in residential, commercial, or industrial districts of the Zoning Code which permit the proposed institutional use. Examples are setback and height, signage, lighting, side and rear yards adjacent to the neighboring property, landscaping, and drainage. The UCRP District has no parking number requirement, but other standards for parking and loading are included, such as screening and drainage. Finally, any institutional use must recognize the performance standards in the Zoning Code with respect to noise, vibration, smoke, dust, odor, heat, and glare as measured at the boundary line.

In its applications, the University submitted a Limitation Text in response to concerns expressed by some neighboring property owners. That Text provides for certain other limitations on the west boundary and a portion of the north boundary, principally the establishment of a 150-foot setback area, additional limitations on building heights, landscape screening of parking and loading areas, an emphasis on preserving wooded areas, and other limitations on lighting, signage, and drainage.

Approval by Columbus City Council

After completion of the public hearing process, including meetings to resolve neighbors' concerns, the Columbus City Council, on November 28, 1988, approved the University's zoning application by a vote of six to zero, with Councilman Ben Espy abstaining because of "conflict of interest." Because of the existence of a Limitation Text, the zoning of the Columbus Campus became a "Limited University-College Research Park District."
Page 408 is blank
APPENDIX IV

THE OHIO STATE UNIVERSITY RESEARCH PARK

(See page 344)
THE OHIO STATE UNIVERSITY RESEARCH PARK

Progress Report to the Board of Trustees

Introduction

On April 22, 1983, Professor Art Adams forwarded his Research Complex Feasibility Report to the President, recommending that the University "proceed to the establishment of a Research Complex." President Jennings responded five days later with a letter to the University community essentially initiating this effort. The Research Park concept was formally approved by the Board of Trustees on October 5, 1984. Three sites were identified: Don Scott Field, Ackerman Road, and the West Campus. The initial focus would be on the Kinnear Road area of the West Campus with the acquisition of two existing buildings. This would provide space for potential users more quickly than would development from the ground up at the other two sites. Potential tenants at the West Campus site would be required to have strong research linkages to the University as a prerequisite for participation. The Ackerman Road and Don Scott Field sites would be held for future development that would be more investment oriented in operation.

The Vice President for Business Administration has been responsible for acquisition of Research Park facilities, site preparation, improvements and alterations to meet tenants' needs, and management of the facilities. This work has been done with the support of, and review and consultation by, the Vice President for Research and Graduate Studies to enhance the efforts to expand the University's research capabilities and programs. Planning and financing arrangements have been coordinated with the Office of Finance.

Background

Following the approval of the planning process, three major studies were completed: a Comparative Study of University-Affiliated Research Parks, done by Professor Adams; a land use concept study for the West Campus, done by Schooley-Caldwell Associates; and a strategic plan for future research park activities, done by Dr. Charles Perry.
Subsequently, the following implementation actions have been accomplished: (1) annexation of approximately 1,200 acres of the West Campus to the City of Columbus for access to public utilities, (2) zoning of all of the Main Campus for University and Research Park Uses, (3) acquisition of three buildings for Research Park tenants, and (4) the execution of a lease for the State Data Center.

The University has spent approximately $7.173 million in acquiring the three Research Park buildings and improving them for tenants. These buildings contain approximately 125,195 square feet of space. They are occupied by nine tenants who employ approximately 153 people. Approximately 23,626 square feet is still available, of which approximately 10,150 square feet is storage space. In addition, there are approximately 15 University-related research entities on the West Campus occupying approximately 771,688 square feet of space and employing approximately 1,331 people. Thus, there is a total of 896,883 square feet of space dedicated to research and related activities at the West Campus Research Park. (See attached table.)

Present Status and Plans

Don Scott Field:

Approximately 200 acres have been identified for development of the Research and Business Park on State Route 161 west of the National Guard Armory. All utilities now are available to the site, and it is zoned for light manufacturing by the City of Columbus. The University has developed restrictive development covenants to eliminate the undesirable activities that are permitted by this zoning. All activity with regard to selecting a developer or marketing this site has been tabled pending completion of the Airport Master Plan Revision for the FAA, the Noise Study, and the overall Don Scott Field land use study.

Ackerman Road:

Approximately 45 acres have been identified for development of a Research and Business Park on the east side of State Route 315. The site has been rezoned for use as a University-College Research Park District and has all utilities available to it. A Request for Information was tendered to local developers this past Spring to determine their interest in developing such a project. Nine positive responses were received, and four of
those responding would be capable of developing the park. A request for proposals has been formulated to elicit detailed development and business plan proposals from the four developers.

West Campus:

Approximately 150 to 270 acres have been identified, through the Schooley-Caldwell Associates study, for development of a University Research Park. As mentioned above, three buildings on Kinnear Road have been acquired, the State Data Center is being designed, and numerous other University-related research activities are taking place in the neighborhood.

The three Research Park buildings are almost full. The Office of Business and Administration, in consultation with the Offices of Finance and Research and Graduate Studies, has been exploring possibilities for acquisition or construction of an additional 50,000 square foot building for future West Campus Research Park tenants. The intent is to develop the Park incrementally so as not to exceed the demand for space. In addition, efforts are continuing to encourage the private sector to participate in this endeavor through master leasing such as was done with 1224 Kinnear Road or lease/leaseback such as was done with the Day Care Center.
<table>
<thead>
<tr>
<th>Address</th>
<th>Agency or Organization</th>
<th>Square Footage Utilized</th>
<th>Estimated Number of Employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960 Kenny Road</td>
<td>Sponsored Research Programs (OSURF)</td>
<td>46,000</td>
<td>130</td>
</tr>
<tr>
<td>1900 Kenny Road</td>
<td>Ctr on Education &amp; Training for Employment</td>
<td>31,561</td>
<td>80</td>
</tr>
<tr>
<td>1991 Kenny Road</td>
<td>Biotechnology Center Greenhouse</td>
<td>2,880</td>
<td>na</td>
</tr>
<tr>
<td>1100 Kinnear Road</td>
<td>Edison Welding Institute</td>
<td>46,484</td>
<td>50</td>
</tr>
<tr>
<td>1121 Kinnear Road</td>
<td>Kinnear Road Center</td>
<td>82,608</td>
<td>225</td>
</tr>
<tr>
<td>1212-18 Kinnear Road</td>
<td>Research Park—Multi-tenant Facility A</td>
<td>37,090</td>
<td>40</td>
</tr>
<tr>
<td>1229 Kinnear Road</td>
<td>Research Park—Multi-tenant Facility B</td>
<td>41,620</td>
<td>63</td>
</tr>
<tr>
<td>1314 Kinnear Road</td>
<td>Research Center (OSURF)</td>
<td>142,984</td>
<td>145</td>
</tr>
<tr>
<td>1314 Kinnear Road</td>
<td>Reactor Building</td>
<td>3,744</td>
<td>4</td>
</tr>
<tr>
<td>1302 Kinnear Road</td>
<td>Van de Graff Laboratory</td>
<td>13,714</td>
<td>12</td>
</tr>
<tr>
<td>1318 Kinnear Road</td>
<td>Satellite Communications Facilities</td>
<td>3,122</td>
<td>5</td>
</tr>
<tr>
<td>1320 Kinnear Road</td>
<td>Electro Science Laboratory</td>
<td>26,940</td>
<td>40</td>
</tr>
<tr>
<td>1330 Carmack Road</td>
<td>State Data Center (Planned Construction)</td>
<td>400,000</td>
<td>600</td>
</tr>
<tr>
<td>1050 Carmack Road</td>
<td>Ohio Council on Economic Education</td>
<td>585</td>
<td>3</td>
</tr>
<tr>
<td>1060 Carmack Road</td>
<td>Biotechnology Center</td>
<td>6,430</td>
<td>40</td>
</tr>
<tr>
<td>1060 Carmack Road</td>
<td>Council of Educational Facilities Planners</td>
<td>2,674</td>
<td>7</td>
</tr>
<tr>
<td>1080 Carmack Road</td>
<td>Biotechnology Center</td>
<td>682</td>
<td>na</td>
</tr>
<tr>
<td>1080 Carmack Road</td>
<td>National Regulatory Research Institute</td>
<td>6,765</td>
<td>33</td>
</tr>
<tr>
<td>1090 Carmack Road</td>
<td>Ohio Biological Survey</td>
<td>1,500</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL: 896,883 employees

Office of Business and Administration
December 2, 1988
Page 414 is blank
SUMMARY OF
RECOMMENDED GOALS AND STRATEGIES
FOR THE
COLLEGE OF MEDICINE AND THE HOSPITALS AND CLINICS

MAY 10, 1988

Revised 11/23/88
STRATEGY SUMMARY

- UNDERSTAND AND WORK TOWARDS ACHIEVING THE CRITERIA WHICH DETERMINE A "TOP 10" NATIONAL MEDICAL SCHOOL

- RECOGNIZE THAT SUBSTANTIAL FUNDING WILL BE REQUIRED TO ACHIEVE TOP 10 NATIONAL RANKING. THE MAJOR LONG-TERM SOURCE OF INCREASED FUNDING WILL BE EXTRAMURAL RESEARCH GRANTS. HOWEVER, INITIAL SOURCES OF SEED MONEY COULD ALSO INCLUDE REALLOCATION OF PRESENT RESOURCES, DEVELOPMENT INCOME, PROGRAM-FOCUSED STATE GRANTS, AND CLINICAL (HOSPITAL AND PRACTICE PLAN) INCOME

- CONTINUE TO FOSTER AN ENVIRONMENT WITHIN OSU HOSPITALS AND CLINICS WHICH SUPPORTS THE COLLEGE OF MEDICINE'S PROGRESS TOWARDS TOP 10 STATUS

- ACKNOWLEDGE THAT SUPPORTING THE COLLEGE OF MEDICINE'S GOALS WILL REQUIRE THAT OSU HOSPITALS AND CLINICS AND ITS MEDICAL STAFF BECOME MUCH MORE MARKET-RESPONSIVE, COST-COMPETITIVE, AND EFFICIENT
OSU COLLEGE OF MEDICINE

GOAL

BECOME A "TOP 10" NATIONAL MEDICAL SCHOOL BY 2000 A.D.
OSU COLLEGE OF MEDICINE

CRITERIA FOR ESTABLISHING RELATIVE POSITION

- Research Dollars
- Training Grants
- Program-Projects/Centers of Excellence
- Prestigious Faculty Memberships
- NIH Study Sections
- Editorial Boards/Lead Editorships
- Faculty Recruitment/Advancement
- Eminent Scholars
- Endowments
- Student Placement
- MD/PhD Joint Degrees
- Other Joint Degrees
- Theory Innovation
- Publications in Research Journals
- Textbooks Authored by Faculty
- Quality of Students/Trainees Attracted
- Attractiveness of Education and Training Programs
- Leadership Positions in National and International Organizations

Specific, quantified targets must be established for each of these criteria, and progress measured and reported.
OSU COLLEGE OF MEDICINE

WHERE IS OSU NOW?

IN TOP 1/3 OF 126 U.S. MEDICAL SCHOOLS

WHAT STRATEGY WILL ACHIEVE "TOP 10" POSITIONING?
OSU COLLEGE OF MEDICINE

CORE STRATEGY

ENHANCE THE EFFECTIVENESS OF TEACHING BY IMPROVING THE STUDENT/FACULTY RATIO AND ENHANCE THE QUALITY OF PATIENT CARE, WHILE SIGNIFICANTLY INCREASING RESEARCH ACTIVITY AND NATIONAL FACULTY VISIBILITY, TO BE FUNDED BY INCREASED RESEARCH GRANTS, REALLOCATION OF PRESENT RESOURCES, AND INCREASED DEVELOPMENT INCOME, FOSTERED BY A SUPPORTING HOSPITAL ENVIRONMENT, IN ACCORDANCE WITH THE AFFIRMATIVE ACTION POLICIES AND PROCEDURES OF THE OHIO STATE UNIVERSITY, ITS COLLEGE OF MEDICINE, HOSPITALS AND CLINICS.
THE COLLEGE OF MEDICINE'S CORE STRATEGY
COMPRISSES FIVE PRINCIPAL STRATEGIES...

PRINCIPAL STRATEGIES

- EDUCATION STRATEGY
- RESEARCH STRATEGY
- RESOURCE STRATEGY
- FACULTY STRATEGY
- CENTERS OF EMPHASIS STRATEGY

CORE STRATEGY

ENHANCE THE EFFECTIVENESS OF TEACHING BY IMPROVING THE STUDENT/FACULTY RATIO, AND ENHANCE THE QUALITY OF PATIENT CARE, WHILE SIGNIFICANTLY INCREASING RESEARCH ACTIVITY AND NATIONAL FACULTY VISIBILITY, TO BE FUNDED BY INCREASED RESEARCH GRANTS, REALLOCATION OF PRESENT RESOURCES AND INCREASED DEVELOPMENT INCOME, FOSTERED BY A SUPPORTING HOSPITAL ENVIRONMENT.
OSU COLLEGE OF MEDICINE

EDUCATION STRATEGY

PRINCIPAL STRATEGY

REDUCE CLASS SIZE BY AT LEAST 2% PER YEAR
FOR THE NEXT 5 YEARS, CONTINUE TO MODIFY THE CLINICAL
EDUCATIONAL EXPERIENCE, AND STRENGTHEN GRADUATE
MEDICAL EDUCATIONAL PROGRAMS, IN ORDER TO RECOGNIZE
CHANGES IN CLINICAL PRACTICE AND OSU’S COMMITMENT
TO BEING A "TOP 10" MEDICAL SCHOOL

DIRECTIONS

- MODIFY TEACHING FOCUS
  - AMBULATORY SETTINGS
    1. OUTPATIENT SERVICES
    2. PHYSICIAN OFFICES
  - TOTAL PATIENT PERSPECTIVE
    (E.G., GERIATRICS, ONCOLOGY,
    WOMEN’S HEALTH)
  - AGGRESSIVENESS IN INNOVATIVE
    TECHNOLOGY AND PROCEDURES

- UTILIZE REFERRAL AREA
  TRAINING SITES TO SUPPLEMENT
  OSU HOSPITALS AND CLINICS

- MAINTAIN A FULL RANGE OF
  DESIRED EDUCATION EXPERIENCES
  - MEDICAL STUDENTS
  - GRADUATE STUDENTS
  - ALLIED HEALTH STUDENTS
  - RESIDENTS/FELLOWS
  - MD/PhD DUAL DEGREES
  - CONTINUING MEDICAL EDUCATION
  - POST-DOCTORAL FELLOWS

- ATTRACT QUALITY STUDENTS AND
  ACHIEVE PLACEMENT IN LEADING
  RESIDENCY PROGRAMS

- RECOGNIZE THE IMPORTANCE OF GRADUATE
  MEDICAL EDUCATION IN ACHIEVING
  THE COLLEGE OF MEDICINE’S GOAL
EDUCATION STRATEGY

PRINCIPAL STRATEGY:

Reduce class size by at least 2% per year for the next 5 years, continue to modify the clinical educational experience, and strengthen graduate medical educational programs, in order to recognize changes in clinical practice and OSU's commitment to being a "top 10" medical school.

RATIONALE:

OSU has a long history of educational excellence, and it currently educates one of the largest medical student bodies in the country. To continue to fulfill its education mission, changes must be made in curricular and clinical teaching experiences to recognize the evolutionary environment in which OSU's graduates will practice. However, great medical schools must also have substantial research programs, and teaching demands often limit the resources which can be devoted to research. In light of current resource limitations and the perceived oversupply of physicians, the number of medical students should be reduced to focus faculty time and resources on research.

DIRECTIONS:

0 Teaching Focus

- Reduce the concentration of clinical experience in acute care settings and provide more ambulatory and non-acute provider experiences.
- Facilitate the development of pacesetting inter-disciplinary programs, such as geriatrics, that cross traditional departmental lines.

- Build and reinforce OSU's role as the leading medical school in the State of Ohio by aggressively maintaining its position at the frontiers of medical technology and evolving treatment methodologies.

0 Referral Area Training Sites

- If present trends in government payments and clinical practice continue, OSU hospitals and clinics may not be able to supply sufficient clinical training opportunities to meet the College of Medicine's needs.

- Hospitals, physicians and other providers in the referral area will find teaching relationships with OSU strategically beneficial.

- Developing new teaching relationships in outlying areas with non-competing providers will strengthen OSU's referral position.

- If at all possible, programs in graduate medical education should be based at the OSUH. Residents and fellows in the University's programs may be assigned for important educational opportunities to other medical institutions in the Central Ohio Area, but only for purposes of enhancing the OSU programs.
0 Range of educational experiences

- Traditionally, the educational emphasis at OSU has been toward medical students.
- Additional residents/fellows, PhDs, and MD/PhD degree candidates will be required to support the College's growing emphasis on research.
- Providing quality educational programs will support efforts to protect and enhance OSU's referral position.

0 Quality students and residency placement

- There is a future threat to the available pool of quality medical students.
- Increased recruiting activity and publicity programs can assure OSU's access to the best potential students.
- Medical schools are evaluated, in part, by where their students go for residencies.
- Proactive planning and counseling can influence where OSU's students apply—and where they are accepted—and increase the number of OSU grads in prestigious residencies.
GRADUATE MEDICAL EDUCATION

- Nationwide, leading institutions emphasize graduate medical education.

- Strengthening graduate medical education is a key component of the College's research and faculty structure strategies.
OSU COLLEGE OF MEDICINE

RESEARCH STRATEGY

PRINCIPAL STRATEGY

SIGNIFICANTLY INCREASE EXTRAMURAL RESEARCH ACTIVITY
BY CONCENTRATING ADDITIONAL SEED MONEY AND RELATED
RESOURCES IN SELECTED AREAS OF EXISTING STRENGTH
OR EXCEPTIONAL EMERGING OPPORTUNITIES

DIRECTIONS

○ ESTABLISH AN OBJECTIVE OF
INCREASING AGGREGATE RESEARCH
FUNDING BY 15-20% PER YEAR

○ COORDINATE AREAS OF EXISTING OR
POTENTIAL STRENGTH WITH HOSPITAL,
COLLEGE OF MEDICINE, AND
UNIVERSITY-WIDE STRENGTHS

○ ESTABLISH CRITERIA AND
MECHANISMS FOR EVALUATING
AND MONITORING PRIORITIES FOR
EMERGING OR EXISTING STRENGTHS

○ PROVIDE FOR GREATER COLLEGE
CONTROL OVER PRIORITIES
FOR ADDITIONAL "SEED FUNDS"

○ PROVIDE ADDITIONAL "SEED FUNDS" TO
ADDRESS COLLEGE OF MEDICINE
PRIORITIES

○ CONTINUE TO FOSTER AN ENVIRONMENT
WHICH SUPPORTS INCREASED RESEARCH
ACTIVITY IN BASIC AND CLINICAL SCIENCES
RESEARCH STRATEGY

PRINCIPAL STRATEGY:

SIGNIFICANTLY INCREASE EXTRAMURAL RESEARCH ACTIVITY BY CONCENTRATING ADDITIONAL SEED MONEY AND RELATED RESOURCES IN SELECTED AREAS OF EXISTING STRENGTH OR EXCEPTIONAL EMERGING OPPORTUNITIES.

RATIONALE:

SIGNIFICANT INCREASES HAVE OCCURRED IN RESEARCH ACTIVITY DURING RECENT YEARS. HOWEVER, THE TOTAL LEVEL OF RESEARCH FUNDS AT OSU COLLEGE OF MEDICINE IS FAR BELOW THE "TOP 10" LEVEL. UNTIL THIS "RESEARCH GAP" IS CLOSED, OSU WILL NOT BE A "TOP 10" SCHOOL. HOWEVER, RESOURCES WILL NOT BE AVAILABLE TO EXPAND RESEARCH IN ALL AREAS SIMULTANEOUSLY. PRIORITIES MUST BE ESTABLISHED AND EFFORTS CONCENTRATED IN THOSE AREAS WHERE STRENGTHS PRESENTLY EXIST AND LARGE AMOUNTS OF RESEARCH FUNDS WILL BE AVAILABLE.

DIRECTIONS:

O ESTABLISH AN OBJECTIVE TO BE ACHIEVED FOR RESEARCH FUNDING

- TO ACHIEVE "TOP 10" LEVEL RESEARCH FUNDING, EXTRAMURAL RESEARCH FUNDING MUST BE INCREASED AT A COMPOUND RATE OF 15-20% PER YEAR. RECENTLY, OSU HAS ACHIEVED A 15% COMPOUND ANNUAL RATE.

- PROGRESS TOWARD THIS OBJECTIVE SHOULD BE MONITORED AND REPORTED PERIODICALLY.
0 Coordinated Research

- Increasingly, major university research efforts are multi-disciplinary.
- There are sources of strength outside of the College which can support its efforts to increase extramural research funding.
- The present University-wide effort to increase research activity will provide greater opportunities for integrated research efforts.

0 Criteria for Evaluating Priorities

- Accord high priority for seed money to research efforts that have the potential to be financially self-sustaining (e.g., extramural funding).
- Provide additional support to existing productive programs.
- Establish timetables and budgetary targets for program-specific research growth.
- Create a joint College of Medicine and Hospitals/Clinics review committee to evaluate existing and proposed research efforts.
0 Seed funds for College Priorities

- Investment of additional funds into high-priority areas will be required from several areas and sources.

- No satisfactory mechanism exists to concentrate or direct adequate funds to priority programs.

- Potential sources of additional seed funds are presently controlled at the departmental level—not college-wide.

- In order to increase the level of investment in research activities which support established College priorities, control of these additional funds must be focused at the College of Medicine level.

0 Supportive Research Environment

- The provision of seed money is only one of the essential requirements for a successful research program.

- Appropriate philosophical commitment to research must exist at all levels of College of Medicine leadership, in both basic and clinical departments.

- The commitment to greater research must be communicated to the entire faculty and demonstrated in all College activities.
OSU COLLEGE OF MEDICINE

RESOURCE STRATEGY

PRINCIPAL STRATEGY

GENERATE THE RESOURCES TO BECOME A "TOP 10" MEDICAL SCHOOL BY REALLOCATING EXISTING REVENUE AND INCREASING FUNDING FROM RESEARCH, ENDOWMENT AND DEVELOPMENT SOURCES, AND TARGETED FEDERAL AND STATE GOVERNMENT PROGRAM FUNDS

DIRECTIONS

- INCREASE THE AMOUNT OF FUNDS AVAILABLE TO THE DEAN FOR SELECTED RESEARCH PRIORITIES
- STRENGTHEN DEVELOPMENT EFFORTS AND INCREASE THE LEVEL OF ANNUAL SUPPORT TO GENERATE GREATER ENDOWMENT INCOME
- STRENGTHEN SUPPORT TO THE HOSPITAL SO THAT IT CAN CONTINUE TO PROVIDE AN ENVIRONMENT WHICH ENHANCES THE COLLEGE'S DEVELOPMENT
- INITIATE (OR RESPOND TO) STATE FUNDING OPPORTUNITIES FOR SPECIFIC PROGRAM AREAS
- INITIATE (OR RESPOND TO) OPPORTUNITIES FOR FEDERAL SUPPORT VIA THE VA OR SPECIFIC PROGRAM AREAS
- DEVELOP A FIVE-YEAR COLLEGE OF MEDICINE BUDGET
- DEVELOP A FIVE-YEAR SPACE PLAN
RESOURCE STRATEGY

PRINCIPAL STRATEGY:

Generate the resources to become a "top 10" medical school by reallocating existing revenue and increasing funding from research, endowment and development sources, and targeted federal and state government program funds.

RATIONALE:

Additional discretionary funds to accelerate research activities will be required. Neither the State of Ohio nor OSU is likely to commit to a significant increase in its level of support to the College of Medicine. The best potential source of significant additional funds is from clinical practice activities, particularly University Hospitals and practice plan contributions (MRDF). Smaller, but still important sources of additional funding are increased state funds and development funding focused around clinical research centers of excellence. In addition to growth, existing sources of funding must also be reallocated to support the priorities of the College of Medicine.

DIRECTIONS:

- Greater College Control
  - Potential sources of seed money for research are presently available at the departmental level.
- The Dean should have access to more discretionary funds to fund high-priority efforts.

- Potential sources of funds are increased TRF payments, a portion of release time funds, State of Ohio "excellence grants", and hospital funds.

- Available funding should be used as seed money for programs that will become financially self-sustaining within a reasonable timeframe.

- At least $5-10 million per year should be available for the Dean's discretionary control within 5 years.

Development

- The OSU College of Medicine has a significantly smaller permanent endowment than top 10 universities nationwide.

- At most medical schools with successful research programs, endowment funds are a significant source of discretionary "seed" funding.

- OSU's historical development efforts for the College of Medicine have been inadequate and should be improved. However, there will necessarily be a lag between the establishment of a stronger development program and the realization of greater development income.
Hospital Support

- The hospital presently supports many College of Medicine programs, but much of this support is indirect, diffused, and not clearly quantified.

- In recent years, hospital profitability has been declining; it is in danger of becoming a financial drain on the University and the College of Medicine if trends are not reversed. However, improved financial performance is possible if the hospital becomes more competitive, efficient, and market-responsive.

- The hospital's ability to support the College's pursuit of its goal is contingent upon the support it receives from the College to achieve improved performance.

State Funding

- Little additional state monies will be available to the College of Medicine for increased salary support or general funding.

- Specific program areas of particular interest to the citizens of Ohio, such as the health needs of the aging, will represent the most promising opportunities for securing new funds.

Federal Funding

- Many teaching institutions rely upon a major relationship with the VA to support significant components of their mission.
- OSU's existing relationship with the VA, though valuable, is comparatively modest.

- OSU should aggressively seek to expand this relationship in a manner which supports the attainment of the College's goal.

- OSU should also identify and pursue opportunities for federal program funding.

**Budgeting**

- Significant steps have been taken to improve the College of Medicine's financial position and financial operating systems.

- Achieving "top 10" status will require careful planning and judicious use of funds.

- Multi-year budgeting and financial planning is required to coordinate and control the use of resources to support the College's priority programs.

- A five-year budgeting system should be implemented as soon as possible.

**Space Planning**

- A five-year space plan for office, research, and clinical areas should be developed and implemented.
OSU COLLEGE OF MEDICINE

FACULTY STRATEGY

PRINCIPAL STRATEGY

RECRUIT AND RETAIN FACULTY MEMBERS WHO ARE CONSISTENT WITH THE REQUIREMENTS OF THE COLLEGE'S EDUCATIONAL AND RESEARCH STRATEGIES, OR WHO WILL SUPPORT THE PATIENT CARE AND SERVICE DELIVERY GOALS OF THE HOSPITALS AND CLINICS

DIRECTIONS

○ RECRUIT NATIONALLY RECOGNIZED FACULTY IN AREAS OF IDENTIFIED PRIORITIES; BRING GRANT DOLLARS TO THE MEDICAL CENTER VIA SPECIFIC FACULTY RECRUITMENT

○ ENCOURAGE AND REWARD INCREASED PARTICIPATION IN ACTIVITIES THAT GAIN NATIONAL PRESTIGE

○ INCREASE THE NUMBER AND DESIRABILITY OF CLINICALLY-ORIENTED POSITIONS TO MEET PATIENT SERVICE NEEDS AND DEMANDS

○ ADJUST FACULTY SIZE TO IMPROVE THE EDUCATIONAL, RESEARCH AND CLINICAL ENVIRONMENTS FOR THE FACULTY, CONSISTENT WITH AVAILABLE FUNDING
FACULTY STRATEGY

PRINCIPAL STRATEGY:

Recruit and retain faculty members who are consistent with the requirements of the College's educational and research strategies, or who will support the patient care and service delivery goals of the hospitals and clinics.

RATIONALE:

The composition of the faculty of the College of Medicine is the parameter that will have the greatest impact upon achieving "top 10" status. The criteria used for evaluation are heavily weighted to who is on the faculty and what they achieve. Fortunately, OSU has a solid base upon which to build. Careful attention must be paid to the mix and size of the faculty to assure that the research and teaching missions are met, at the same time that patient care needs are being satisfied.

DIRECTIONS:

0 NATIONALLY RECOGNIZED FACULTY

- Coordinate recruiting efforts with College of Medicine and hospital centers of emphasis and with emerging opportunities.

- Provide sufficient funds to hire the very best candidates.
- MAKE AND DELIVER UPON THE REQUIRED COMMITMENTS OF SUPPORT. COORDINATE COMMITMENTS MADE TO CANDIDATES DURING THE RECRUITMENT PROCESS BETWEEN THE COLLEGE OF MEDICINE, HOSPITALS, AND OTHER AFFECTED PARTIES.

O REWARDING INCREASED NATIONAL PARTICIPATION

- IDENTIFY THOSE EDITORIAL BOARDS, REVIEW PANELS, NATIONAL ASSOCIATION BOARDS, PUBLICATIONS, ETC., IN WHICH OSU FACULTY MUST PARTICIPATE IN ORDER TO ACHIEVE NATIONAL PRE-EMINENCE.

- SET SPECIFIC TARGETS, BASED UPON THE PRESENT POSITION, FOR EACH NATIONAL FORUM AND PERIODICALLY MEASURE PROGRESS TOWARD ACHIEVING THESE TARGETS.

- RECOGNIZE AND REWARD THOSE INDIVIDUALS WHO STEP UP TO RESPONSIBILITY OF ACHIEVING THESE POSITIONS.

- PROVIDE FUNDING TO SUPPORT GREATER PARTICIPATION IN THESE ACTIVITIES.

O CLINICALLY-ORIENTED FACULTY

- TO ACHIEVE PATIENT SERVICE AND REVENUE REQUIREMENTS WHICH WILL SUPPORT THE COLLEGE OF MEDICINE'S PROGRAMS, ADDITIONAL PRODUCTIVE, CLINICALLY-ORIENTED FACULTY WILL BE REQUIRED.

- THE PRESENT STRUCTURE AND STATUS OF REGULAR CLINICAL TRACK OPTIONS WILL NOT ATTRACT AND RETAIN THE NUMBER AND QUALITY OF PHYSICIANS REQUIRED.
- A strong, clinically-oriented faculty can only be created by recognizing their importance to the College of Medicine and creating appropriate career paths.

- Organizational options to strengthen the clinical orientation of the faculty include:
  -- A strengthened, regular clinical track within existing departments
  -- Community faculty status for salaried physicians who are added to OSU's primary care network
  -- A department of community medicine

**Faculty Size**

- The faculty is presently dissatisfied with their workload, the time available to pursue research activities, and the mechanisms available to recognize their various contributions.

- Adjustments to faculty size can only be made if they are consistent with college-wide priorities and available funding.

- Faculty time is one of the resources that should be consciously re-allocated to focus upon defined priorities.
IDENTIFY AREAS OF EMPHASIS AROUND EXISTING COLLEGE OF MEDICINE STRENGTHS AND EMERGING RESEARCH OPPORTUNITIES; COORDINATE WITH THE HOSPITALS AND CLINICS IN DETERMINING CENTERS OF EMPHASIS. CRITERIA FOR DETERMINING AND PRIORITIZING CENTERS OF EMPHASIS ARE:

1) HAS CLINICAL IMPORTANCE FOR OSU HOSPITALS' COMPETITIVENESS;

2) IS MULTIDISCIPLINARY IN NATURE;

3) drawing upon a strong research (basic science) component;

4) EXHIBITS A STRONG PRESENCE IN THE OSU SYSTEM;

5) HAS ESTABLISHED LEADERSHIP.

DIRECTIONS

○ COM ADMINISTRATION, COM FACULTY AND HOSPITALS ADMINISTRATION COLLABORATIVELY SELECT CENTERS OF EMPHASIS

○ INITIALLY SELECT FOR EMPHASIS:
  - CANCER
  - NEUROSCIENCES
  - TRANSPLANTATION
  - CARDIOVASCULAR
  - WOMEN'S AND CHILDREN'S HEALTH
  - GERIATRICS/GERONTOLOGY

○ OTHER AREAS OF OPPORTUNITY:
  - MOLECULAR GENETICS
  - DIAGNOSTIC SERVICES
  - IMMUNOLOGY
  - AIDS
  - PRIMARY CARE
  - DIABETES
  - REHABILITATION
  - DIGESTIVE DISEASES
  - TRAUMA AND EMERGENCY CARE
  - BIOMEDICAL TECHNOLOGY
  - CLINICAL PHARMACOLOGY
  - HEALTH CARE SERVICES RESEARCH
  - PREVENTIVE SERVICES AND HEALTH EDUCATION
  - INFORMATION TECHNOLOGY
OSU COLLEGE OF MEDICINE

CENTERS OF EMPHASIS STRATEGY

(CONTINUED)

PRINCIPAL STRATEGY

DIRECTIONS

- ESTABLISH AN ONGOING PROGRAM REVIEW COMMITTEE CONSISTING OF REPRESENTATION FROM COLLEGE OF MEDICINE DEPARTMENTAL LEADERSHIP, COLLEGE OF MEDICINE ADMINISTRATION, AND OSU HOSPITALS ADMINISTRATION TO ESTABLISH EVALUATION CRITERIA AND MONITOR SUCCESS OF CENTERS OF EMPHASIS
OSU
HOSPITALS AND CLINICS

GOAL

PROVIDE A RESPONSIVE TEACHING AND RESEARCH ENVIRONMENT AND HIGH-QUALITY, COST-EFFECTIVE PATIENT CARE, TO SUPPORT THE FUTURE INTERRELATED DIRECTIONS OF THE COLLEGE OF MEDICINE AND OSU HOSPITALS AND CLINICS, IN ACCORDANCE WITH THE AFFIRMATIVE ACTION POLICIES AND PROCEDURES OF THE OHIO STATE UNIVERSITY, ITS COLLEGE OF MEDICINE, HOSPITALS AND CLINICS.
OSU

HOSPITALS AND CLINICS

STRATEGICALLY, THE HOSPITALS AND CLINICS
(INCLUDING THE DEPARTMENTAL PRACTICES)
SHOULD BE VIEWED ON A UNIFIED BASIS
FOR PLANNING PURPOSES

WHY:

- IN THE MARKETPLACE, THEY ARE PERCEIVED AS AN INTEGRATED
  DELIVERY UNIT

- THE CLINICS (AND THE CLINICAL DEPARTMENTS) FUNCTION AS THE
  "ENGINE" OF OSU HOSPITALS

- EXTERNAL PERCEPTION OF QUALITY VIEWS THE HOSPITALS
  AND PHYSICIANS/CLINICS AS ONE
CRITERIA FOR EVALUATION OF HOSPITALS AND CLINICS' PERFORMANCE:

- Market Share/Volume
- Relative Cost
- Payor Mix
- Ratio of Inpatient to Ambulatory Revenue
- Employee Morale
- Physician Perceptions
- Consumer Perceptions
- Alternative Delivery System Participation
- Level of Technology/Clinical Excellence
- Operating Margin
- Responsiveness to Community Health Needs and Demands
- New Patient Visits
- Appointment Availability
- Contributions to College of Medicine
- Customer Satisfaction and Acceptability of Services Rendered
- Performance of Clinical and Managerial Systems
- Performance of Ambulatory Services Delivery Systems

Specific quantified targets must be established for each of these criteria, and progress should be measured and reported on a regular basis.
OSU

HOSPITALS AND CLINICS

CORE STRATEGY

IMPROVE MARKET RESPONSIVENESS AND COMPETITIVENESS OF OSU HOSPITALS AND CLINICS, SUPPORT THE MEDICAL STAFF IN DEVELOPING A GEOGRAPHICALLY DISTRIBUTED PHYSICIAN NETWORK, AND ESTABLISH A SERVICE NETWORK TO ATTRACT THE NECESSARY PATIENT VOLUMES, CONSISTENT WITH THE COLLEGE OF MEDICINE'S CORE STRATEGY.
OSU HOSPITALS AND CLINICS

THE HOSPITALS AND CLINICS CORE STRATEGY COMPRIS
2 KEY COMPONENTS AND 7 PRINCIPAL STRATEGIES....

CORE STRATEGY

MARKET RESPONSIVENESS AND COMPETITIVENESS OF OSU HOSPITALS AND CLINICS, SUPPORT THE MEDICAL STAFF IN DEVELOPING A GEOGRAPHICALLY DISTRIBUTED PHYSICIAN NETWORK, AND ESTABLISH A SERVICE NETWORK TO ATTRACT THE NECESSARY PATIENT VOLUMES, CONSISTENT WITH THE COLLEGE OF MEDICINE'S CORE STRATEGY

KEY COMPONENTS

MARKET RESPONSIVENESS AND COMPETITIVENESS

PHYSICIAN AND SERVICES NETWORK

PRINCIPAL STRATEGIES

- STRUCTURE STRATEGY
- FINANCIAL STRATEGY
- CENTERS OF EMPHASIS STRATEGY
- CONSUMER STRATEGY
- MARKETING STRATEGY
- LOCAL AREA STRATEGY
- REFERRAL AREA STRATEGY
OSU
HOSPITALS AND CLINICS

STRUCTURE STRATEGY

PRINCIPAL STRATEGY

IMPROVE THE FLEXIBILITY OF THE OSU HOSPITALS AND CLINICS TO RESPOND TO MARKETPLACE CHANGES, AND STRENGTHEN ITS GOVERNANCE AND MANAGEMENT IN ORDER TO RESPOND MORE EFFECTIVELY TO THE COMPETITIVE DEMANDS OF THE EXTERNAL ENVIRONMENT

DIRECTIONS

- STRENGTHEN THE ROLE OF THE UNIVERSITY HOSPITALS BOARD BY BROADENING ITS AGENDA RELATIVE TO SETTING STRATEGIC DIRECTIONS, STANDARDS, CLINICAL ACTIVITIES, AND MONITORING PERFORMANCE

- FORMALIZE A STRATEGIC PLANNING PROCESS TO BE DIRECTED BY THE BOARD THAT INTEGRATES THE PLANS OF THE COLLEGE OF MEDICINE AND HOSPITALS AND CLINICS, AND CONSIDERS THE PLANS OF OTHER HEALTH COLLEGES, IN ANALYZING AND RECONCILING THE DEMANDS OF THE COMPETITIVE ENVIRONMENT

- IMPROVE COMMUNICATIONS AND JOINT DECISION MAKING BETWEEN HOSPITALS AND CLINICS ADMINISTRATION, COLLEGE OF MEDICINE ADMINISTRATION, AND MEDICAL STAFF/FACULTY

- ACHIEVE GREATER FLEXIBILITY WITHIN THE UNIVERSITY STRUCTURE FOR SELECTED ADMINISTRATIVE AND SUPPORT ACTIVITIES
OSU HOSPITALS WILL IMPLEMENT THIS STRATEGY (AS WELL AS OTHERS CONTAINED IN THE PLAN) IN ACCORDANCE WITH ITS EXISTING AFFIRMATIVE ACTION PLAN IN ORDER TO MEET UNIVERSITY REQUIREMENTS, MANDATES, GOALS, ETC.
STRUCTURE STRATEGY

PRINCIPAL STRATEGY:

Improve the flexibility of the OSU Hospitals and Clinics to respond to marketplace changes, and strengthen its governance and management in order to respond more effectively to the competitive demands of the external environment.

RATIONALE:

In order to maintain financial viability and to provide additional funding for the College of Medicine's programs, OSU Hospitals and Clinics must be more responsive to the demands of today's competitive health care marketplace. A major research effort by the Consortium for the study of University Hospitals has shown that, in general, those university hospitals which are more independent of the state, university and medical school are more successful. A competitive environment requires quick, decisive actions and a concentration on strategies. This can best be achieved by concentrating more authority in the University Hospitals Board and, by extension, in hospital management.

DIRECTIONS:

0 University Hospitals Board

- The University Hospitals Board should be responsible and accountable to the University Trustees, for the overall direction and operation of the hospital—and for its support of both the College of Medicine's programs and those of the University's other health colleges.
- The executive director of University Hospitals will be responsible for the operations of the hospitals; will be responsible to the University Hospitals board for carrying out its assigned functions; and shall report to the Vice President for Health Services for University governance.

- The University Hospitals Board, consistent with its mandate from the Trustees, should set policies and standards, approve plans, and monitor performance for the hospitals and clinics.

0 Strategic Planning

- The present strategic planning effort should be transformed into an ongoing process under the direction of the Board.

- The plan of OSU hospitals and clinics should be integrated with the College of Medicine's plans and should consider the plans of the University's several health colleges. Significant conflicts which cannot be resolved by the University Hospitals Board should be discussed with appropriate University officials.

- The University Hospitals Board, as public representatives, are in an excellent position to recognize the conflicting demands upon OSU Hospitals and the College of Medicine, and to reconcile internal and external demands in governing the Hospitals and Clinics.


0 **Communication and Decision Making**

- Clinical priorities and investment strategies should involve personnel from both the Administration of the Hospitals and the College in the planning and evaluation process.

- Mechanisms should be established to increase inter-departmental communication and coordination to foster the many high-priority, multi-department efforts which will be developed.

0 **Independence/Flexibility**

- The ability of OSU Hospitals and Clinics to succeed in the evolving competitive healthcare environment is compromised whenever the university structure significantly impinges upon management/governance flexibility.

- The management of OSU Hospitals and Clinics should establish the areas where flexibility is currently being constrained in a significant way, and work to achieve delegated independence (under the auspices of the Hospital Board) in those key areas.

- Hospitals management must plan for adequate space to meet shifting health care demands and changes in delivery mechanisms.
OSU
HOSPITALS AND CLINICS

FINANCIAL STRATEGY

**PRINCIPAL STRATEGY**

- IMPROVE THE FINANCIAL POSITION AND THE COST EFFECTIVENESS OF OSU HOSPITALS AND CLINICS TO ACHIEVE FINANCIAL SELF-SUFFICIENCY

**DIRECTIONS**

- CREATE AWARENESS OF THE IMPORTANCE OF COST EFFECTIVENESS AMONG PHYSICIANS, MANAGEMENT AND EMPLOYEES

- STRENGTHEN COST REDUCTION RESULTS THROUGH AGGRESSIVE BUDGETING, PRODUCTIVITY MANAGEMENT, AND RESPONSIBILITY DELEGATION EFFORTS

- EXPAND HOSPITAL/UNIVERSITY EFFORTS TO CONTAIN THE COSTS OF JOINT ACTIVITIES, INCLUDING BOTH DIRECTLY PURCHASED SUPPLIES AND SERVICES AND UNIVERSITY OVERHEAD ITEMS

- PARTICIPATE IN ALL MANAGED CARE PLANS WHOSE REIMBURSEMENT STRUCTURE IS ACCEPTABLE FOR THE HOSPITALS AND CLINICS

- MONITOR AT THE BOARD LEVEL PROGRESS IN ACHIEVING TARGETED COST PERFORMANCE INDICATORS

- ALLOCATE FUNDS FOR REINVESTMENT NEEDS IN ACCORDANCE WITH DEFINED PRIORITIES TO SUSTAIN A COMPETITIVE POSITION FOR OSU HOSPITALS AND CLINICS; REINVESTMENT NEEDS MUST BE ACCORDED PREFERENCE WITHIN THE SCHEME OF CAPITAL RESOURCE ALLOCATION
FINANCIAL STRATEGY

PRINCIPAL STRATEGY:

Improve the financial position and cost effectiveness of OSU Hospitals and clinics to achieve financial self-sufficiency.

RATIONALE:

The present competitive health care environment provides no safe harbor for costly, inefficient providers. The position of OSU Hospitals as the most expensive institution in Franklin County, and among the most expensive in Ohio, places the institution at financial risk. In spite of its high charge levels, however, the profitability of OSU Hospitals has been declining for several years. If this trend is not reversed, valuable funds now being used for education and research efforts will have to be redirected to offset the hospitals' deficit. Across the country, academic medical centers are struggling with this same issue; only a few are achieving success. The successful institutions recognize that while the comprehensive missions of teaching hospitals preclude abandoning high-cost tertiary services, there is no requirement that they have to operate in an inefficient manner.
Direction:

0 Awareness of Cost-effectiveness

- At present, cost-effectiveness is not a high priority concern of most physicians, management staff and employees.

- Educational programs can heighten awareness and demonstrate that cost effectiveness and quality do not necessarily conflict.

- Without awareness and acceptance, the cost performance of the institution will not improve.

0 Responsibility Delegation

- University Hospitals management staff must be given both the authority and responsibility to try out fresh alternatives to the present high-cost method of service delivery within the Hospitals and Clinics.

- With proper guidance, cost reduction and productivity improvement efforts can be most effectively accomplished by department and first-line supervisory employees.

- Potential targets for improved productivity and cost-effectiveness should include departments and services within the College of Medicine, as well as University Hospitals.
- Mutual determination of initial budget targets and regular follow-up with front-line supervisors is the most effective means of achieving cost reductions and productivity gains.

0 Subsidy to University

- Currently, University Hospitals is paying more than $7 million annually to OSU for services which would cost considerably less if purchased on the open market.

- While many of the factors responsible for this situation will be difficult to eliminate in the near future, there should be a clear, mutual understanding that the costs of services purchased from the University must be contained; leadership of both institutions should work jointly to move overhead allocations and purchased services much closer to levels commensurate with the open marketplace.

0 Alternative Delivery Systems

- ADS penetration will increase in the Columbus area to 30-35% of the market.

- OSU’s high cost and image make participation in ADS programs difficult.

- Once OSU is excluded from a particular program, its members are lost as potential patients to OSU.
- The hospitals and clinics should participate in as many ADS plans as necessary to assure that the College of Medicine's teaching requirements are supported by adequate patient volume. The hospitals and College faculty must collaborate on the selection of ADS plans. In reviewing an ADS plan, consideration must be given to the fiscal impact of the plan's reimbursement structure on the economic viability of the hospitals and clinics; deep discounting may not be in the best interests of neither the hospitals and clinics or the COM.

0 Board Involvement

- Because of its importance, financial-effectiveness should become a top priority of the board.

- Specific, measurable targets should be set, and progress monitored periodically, to insure that improvement is being made.

0 Reinvestment Needs

- In order to remain financially solvent, the hospitals and clinics must be permitted to reinvest the necessary funds required to be competitive.

- A long term capital and reinvestment plan spanning 3 to 5 years should be developed, and its requirements given high priority.

- The success of these investments should be monitored periodically, and adjustments made, as required.
OSU
HOSPITALS AND CLINICS

CENTERS OF EMPHASIS STRATEGY

PRINCIPAL STRATEGY

IDENTIFY AREAS OF EMPHASIS AROUND EXISTING INSTITUTIONAL STRENGTHS AND EXCEPTIONAL EMERGING MARKETPLACE/CLINICAL RESEARCH OPPORTUNITIES; THEN CONCENTRATE OPERATIONAL RESOURCES AND MARKETING ACTIVITIES IN THESE AREAS. CRITERIA FOR DETERMINING AND PRIORITIZING CENTERS OF EMPHASIS ARE THAT IT:

1) HAS CLINICAL IMPORTANCE FOR OSU HOSPITALS' COMPETITIVENESS;

2) IS MULTIDISCIPLINARY IN NATURE;

3) DRAWS UPON A STRONG RESEARCH (BASIC SCIENCE) COMPONENT;

4) EXHIBITS A STRONG PRESENCE IN THE OSU SYSTEM;

5) HAS ESTABLISHED LEADERSHIP.

DIRECTIONS

o INITIALLY SELECT FOR EMPHASIS:
  - CANCER
  - NEUROSCIENCES
  - TRANSPLANTATION
  - CARDIOVASCULAR
  - WOMEN'S AND CHILDREN'S HEALTH
  - GERIATRICS/GERONTOLOGY

o OTHER AREAS OF OPPORTUNITY:
  - MOLECULAR GENETICS
  - DIAGNOSTIC SERVICES
  - IMMUNOLOGY
  - AIDS
  - PRIMARY CARE
  - DIABETES
  - REHABILITATION
  - DIGESTIVE DISEASES
  - TRAUMA AND EMERGENCY SERVICES
  - BIOMEDICAL TECHNOLOGY
  - CLINICAL PHARMACOLOGY
  - HEALTH CARE SERVICES RESEARCH
  - PREVENTIVE SERVICES AND HEALTH EDUCATION
  - INFORMATION TECHNOLOGY

o ACCENTUATE THE UNIQUE STRENGTHS WITHIN EACH AREA OF EMPHASIS, BUILDING THE FOCUS OF OSUH'S MARKETING AROUND THEM IN ORDER TO GAIN/MAINTAIN A COMPETITIVE ADVANTAGE
OSU
HOSPITALS AND CLINICS

CENTERS OF EMPHASIS STRATEGY
(CONTINUED)

PRINCIPAL STRATEGY

DIRECTIONS

- Establish an ongoing clinical program review committee consisting of representatives from COM departments, College of Medicine Administration, and the Hospitals Administration to establish evaluation criteria and monitor success of clinical programs.

- Develop the Cancer Institute with independence in cancer-specific services and medical direction while achieving integration with the hospitals for all other administrative services.
CENTERS OF EMPHASIS STRATEGY

PRINCIPAL STRATEGY:

Identify areas of emphasis around existing strengths and exceptional emerging opportunities; then concentrate resources and promotional activities in these areas.

RATIONALE:

Since resource constraints prohibit putting equal emphasis on all areas. Some areas must be selected for special emphasis. The criteria utilized for identifying and prioritizing centers of emphasis are:

1) Has clinical importance for the OSU Hospitals' competitiveness;
2) Is multidisciplinary and nature;
3) Draws upon a strong research (basic science) component;
4) Exhibits a strong presence in the OSU system;
5) Has established leadership.

Once selected, centers of emphasis would have priority for resources and attention. Over time, the areas of emphasis will change, reflecting the conditions that exist at that future time and the maturity of particular programs.
**Directions:**

- **Initial Emphasis**
  - These areas currently have great growth potential.
  - Strong present positions exist (or recent improvements have been made) in each area.
  - Resources are available to capitalize on the opportunities.

- **Unique Strengths For Each Area of Emphasis**
  - The unique strengths of each area are critically important; they were responsible for its being selected for emphasis.
  - These unique strengths should be identified and then enhanced.
  - Marketing programs should be centered around these particular areas of strength for each program.

- **Clinical Program Review Committee**
  - Being selected as an initial area of emphasis does not mean that the area will always be emphasized. Priorities associated with centers of emphasis and the identification of centers of emphasis must be reevaluated periodically as part of the planning process.
- Performance criteria, with specific goals for each area, should be established and actual results compared against the target.

- When performance does not meet expectations, corrective action should be taken or emphasis status removed.

- A review committee with representatives from the College of Medicine Administration, selected COM departments and the hospitals administration should be established to evaluate and monitor programs.

Cancer Institute

- The Cancer Institute represents a major, highly visible investment by the State of Ohio.

- Unlike many new cancer institutes, no significant on-going state operating appropriations were made.

- The Cancer Institute has the potential to cost the College of Medicine (or USU) great sums of money if the higher cost structure of the Institute is not offset by greater operating or non-operating revenues.

- Independence in cancer-specific services, and medical direction will be required to meet the objectives of the Institute.

- Other services can be more effectively integrated with the hospital without compromising the Institute's mission, thus permitting operating efficiencies to be achieved.
- Financial reports, separate from those of University hospitals, will be maintained for the Cancer Institute.
OSU
HOSPITALS AND CLINICS

CONSUMER STRATEGY

**PRINCIPAL STRATEGY**

CREATE A USER-FRIENDLY ENVIRONMENT THAT IS ACCESSIBLE, CONVENIENT AND RESPONSIVE TO PATIENTS AND REFERRING PHYSICIANS THROUGH THE DEVELOPMENT OF A CONSUMER SERVICE PHILOSOPHY

**DIRECTIIONS**

- ESTABLISH IN-HOUSE CONSUMER RELATIONS PROGRAMS TO CREATE AWARENESS AND EDUCATE EMPLOYEES, MANAGEMENT, STUDENTS, CLINICAL RESIDENTS, AND FACULTY ABOUT THE IMPORTANCE AND NEEDS OF CONSUMERS.

- ANALYZE AND MODIFY CONSUMER CONTACT OPERATING SYSTEMS TO MEET THE PERCEIVED AND ACTUAL NEEDS OF PATIENTS AND REFERRING PHYSICIANS.

- COORDINATE PATIENT ACCESS, CLINIC SCHEDULING, BILLING AND RELATED ADMINISTRATIVE ACTIVITIES FOR ALL ON-CAMPUS CLINICS, AND OFF-CAMPUS PRIMARY CARE NETWORKS ESTABLISHED OR BEING ESTABLISHED.
OSU

HOSPITALS AND CLINICS

CONSUMER STRATEGY -- CONTINUED

PRINCIPAL STRATEGY

CREATE A USER-FRIENDLY ENVIRONMENT
THAT IS ACCESSIBLE, CONVENIENT AND
RESPONSIVE TO PATIENTS AND REFERRING
PHYSICIANS THROUGH THE DEVELOPMENT OF A
CONSUMER SERVICE PHILOSOPHY

DIRECTIONS -- CONTINUED

• MEASURE, IMPROVE AND MONITOR EMPLOYEE
  COMMITMENT TO CONSUMER SERVICE AND
  OVERALL JOB SATISFACTION

• CREATE MECHANISMS TO ASSURE COMMUNICATIONS
  WITH REFERRING PHYSICIANS

• WORK WITH STATE OFFICIALS TO OBTAIN
  APPROVAL FOR AN EXIT OFF HIGHWAY 315

• IMPROVE ACCESS, SIGNAGE AND PARKING
  WITHIN THE MEDICAL CENTER’S CAMPUS

• DEVELOP SPECIFIC PROGRAMS DESIGNED TO
  "DEINSTITUTIONALIZE" THE MEDICAL CENTER’S
  INTERNAL ENVIRONMENT AND ENHANCE PATIENT,
  VISITOR, AND FAMILY MEMBER PERCEPTIONS
  OF OSUH AS A POSITIVE HEALING ENVIRONMENT
CONSUMER STRATEGY

PRINCIPAL STRATEGY:

CREATE A USER-FRIENDLY ENVIRONMENT THAT IS ACCESSIBLE, CONVENIENT AND RESPONSIVE TO PATIENTS AND REFERRING PHYSICIANS THROUGH THE DEVELOPMENT OF A CONSUMER SERVICE PHILOSOPHY.

RATIONALE:

IN A COMPETITIVE ENVIRONMENT, THE PERCEPTIONS OF BOTH PATIENTS AND REFERRING PHYSICIANS CONCERNING BOTH CLINICAL QUALITY AND CONSUMER ORIENTATION ARE VITAL TO THE CONTINUED VIABILITY OF THE HOSPITALS AND CLINICS. IT IS THE USERS' VIEW, NOT WHAT THE PROVIDERS THINK, THAT IS THE REAL MEASURE OF SUCCESSFUL PATIENT CARE. OSU HOSPITALS AND CLINICS PROVIDE CARE OF HIGH CLINICAL QUALITY. HOWEVER, THE QUALITY OF THE DELIVERY PROCESS—AND USERS' PERCEPTIONS OF ITS QUALITY—MUST BE IMPROVED SIGNIFICANTLY. THIS MUST BE ACCOMPLISHED AT THE SAME TIME THAT THE CARE IS DELIVERED IN A MORE COST-EFFECTIVE MANNER.

DIRECTION:

0 Awareness

- ALL INTERNAL GROUPS—MANAGEMENT, EMPLOYEES, STUDENTS, RESIDENTS AND FACULTY—MUST RECOGNIZE THAT PATIENTS AND REFERRING PHYSICIANS ARE OSU'S CONSUMERS, AND THUS THEIR NEEDS MUST BE UNDERSTOOD AND MET.
- The awareness level of these internal groups must be increased before performance will improve.

- Frequent reinforcement must occur.

0 Consumer-Contact Operating Systems

- All consumer-contact operating systems (such as billing, appointment scheduling, admitting and outpatient registration) should be identified and analyzed for their impact on users.

- User problems should then be identified and corrected.

- A continuing user-oriented analysis and testing program should be initiated.

0 Clinic Activities

- Present clinic activities are very fragmented and difficult to use for both patients and physicians.

- Across the country, clinics within successful major referral centers either operate as a coordinated, single entity or give the impression of being one.
- Clinic scheduling, billing and related patient-contact administrative activities should be coordinated, consolidated, and controlled by a single management unit. A task force comprised of medical staff representatives and hospitals administration representatives will establish policy for and maintain oversight of the management unit.

0 Employee Morale

- Employee morale is the major single parameter that impacts patients' perceptions of hospitals and clinics.

- Morale must be constantly measured, monitored and strengthened to improve patient perception of the hospitals and clinics.

0 Access From Highway 315

- Vehicle access through the campus to the hospitals and clinic is extremely poor.

- Plans have existed for an access road for years. This is a high priority need, and breaking the political logjam for this access road should thus become a top medical center and university priority.
Signage/Access

- OSU Hospitals and Clinics are a very large, complex entity which is imbedded in an even larger entity. It is both confusing and intimidating for many patients to access the hospitals and clinics.

- For patients from the distant referral areas, this intimidation is even more of a deterring factor.

- Expeditious development and implementation of programs designed to make the facilities easier to use should be pursued. These efforts may include:

  - Informational materials (brochures, maps, kiosks, information personnel)
  - Creative Signage
  - Ease of patient drop-off
  - Ease of parking for non-geographic medical faculty/staff
  - Ease of parking for ambulatory surgery patients and outpatients
0 Internal Environment

- Efforts must be made to develop programs and operating systems that measurably improve the public's perception about the internal service delivery environment of University Hospitals. Currently, a high-technology position combined with a "low touch, impersonal" service delivery rating exists in the minds of the consumer public.

- In the future, quality health service delivery and the public's satisfaction derived therein will be linked to such organizational attributes as:

1) Appearance of the facility and staff
2) Courtesy of physicians and employees
3) Friendliness of the workforce
4) Competence of practitioners and professionalism displayed
5) Responsiveness to patient/family needs
6) Comfort facilities, etc.
7) Provision of extras/value-added services

- The successful medical center of the future must blend technology with those service delivery attributes sought by the consuming public.
OSU

HOSPITALS AND CLINICS

MARKETING STRATEGY

PRINCIPAL STRATEGY

AGGRESSIVELY EDUCATE TARGETED MARKETS ABOUT THE CENTERS OF EMPHASIS OF OSU HOSPITALS AND CLINICS, AND THE TECHNOLOGY, LEADERSHIP, AND INNOVATION OF OSU'S PHYSICIAN FACULTY, AND CREATE A COMPETITIVE POSITION THAT FAVORABLY DIFFERENTIATES THE MEDICAL CENTER FROM ITS PRINCIPAL COMPETITORS

DIRECTIONS

○ RECOGNIZE THE IMPORTANCE OF FAVORABLE "WORD OF MOUTH" ENDORSEMENTS FROM PATIENTS AND FAMILY, AND GEAR THE MEDICAL CENTER'S CONSUMER STRATEGY TO THIS END

○ INCREASE FACULTY INTERACTION/INTERRELATIONSHIPS WITH PRESENT AND POTENTIAL REFERRING PHYSICIANS; AND ACTIVELY MARKET THE MEDICAL STAFF TO TARGETED PHYSICIAN MARKETS IN CENTRAL OHIO

○ CAPITALIZE ON THE STRENGTHS OF THE FACULTY BY ORGANIZING A MEDICAL CENTER-WIDE PUBLIC RELATIONS PROGRAM, AND INTEGRATE WITH OTHER PHYSICIAN MARKETING ACTIVITIES

○ DEVELOP AND IMPLEMENT A FOCUSED COMMUNICATIONS CAMPAIGN TO ESTABLISH OSU'S COMPETITIVE POSITIONING, INCREASE UTILIZATION IN OSU'S AREAS OF CLINICAL STRENGTH, AND INCREASE REFERRALS TO THE MEDICAL STAFF IN THESE AREAS

○ ESTABLISH OSU'S POSITION IN THE MARKETPLACE AS AN INNOVATIVE, HIGH TECH, HIGH QUALITY PROVIDER THAT ALSO MEETS THE BROAD MEDICAL AND PERSONAL HEALTH CARE NEEDS OF THE PATIENT
MARKETING STRATEGY

PRINCIPAL STRATEGY:

Aggressively educate targeted markets about the centers of emphasis of OSU Hospitals and Clinics, and the technology, leadership, and innovation of OSU's physician faculty, and create a competitive position that favorably differentiates the Medical Center from its principal competitors.

RATIONALE:

In a competitive environment, market share must be won. Competitors in Central Ohio—as well as other major Ohio tertiary centers—have significantly increased their marketing efforts in recent years. There is a real danger that OSU will lose the necessary critical volume of patients required to provide sufficient clinical training and assure the financial success of the hospitals and Clinics. OSU has tremendous resources and is a leader in many important new procedural areas. However, its position and strengths are not as well-known or fully appreciated in central Ohio as they need to be.

DIRECTIONS:

0 Consumer Endorsements

- Recommendations from family, friends and acquaintances are the major component in physician and hospital selection decisions.
- When patients are satisfied with their experience, they will recommend that provider to friends and family.

- Programs can be designed to encourage satisfied patients and family members to share their experience.

0 Referring Physicians

- Physician referrals are a physician-to-physician phenomenon.

- Physicians refer to other physicians whom they know, respect and trust.

- An active program to increase faculty interaction with referral area physicians will increase referral volume.

0 Public Relations

- Publicity is the least expensive—and most effective form of advertising.

- OSU has many strengths and programs that are truly “newsworthy”, but which are relatively unknown to the local community.

- A medical center-wide public relations program is needed to identify publicity opportunities and assure that they are taken advantage of appropriately.
0 Marketing/Communications

- Within Columbus and throughout Central Ohio, repetitive messages about University Hospitals must be a component of a total marketing program.

- Communication efforts should be directed towards reinforcing OSU's strategic positioning and increasing volume in areas of emphasis.

- Communication efforts should be concentrated heavily, but not exclusively, on centers of emphasis.

0 Image and Positioning

- Presently, OSU Hospitals and Clinics have a limited position with the public (i.e., a high tech services position coupled with high levels of physician and consumer non-awareness about other OSUH services).

- A definite positioning theme must be established that is supported by the reality which can be delivered.

- The best position would be to continue to enhance OSU's current position as an innovative, high tech, high-quality provider within its identified centers of emphasis—but which also meets the human needs of the patient.
OSU
HOSPITALS AND CLINICS
LOCAL AREA STRATEGY

**PRINCIPAL STRATEGY**

ASSIST MEDICAL STAFF IN IDENTIFYING SPECIFIC COMMUNITY BASED PHYSICIANS WHO WISH TO AFFILIATE WITH AN OSU NETWORK OF PHYSICIANS AND AMBULATORY CARE SERVICE CENTERS WITHIN FRANKLIN COUNTY AND IN SELECTED NEARBY POPULATION CENTERS; SPECIFICALLY, THOSE COUNTIES THAT COMPRISE THE COLUMBUS METROPOLITAN STATISTICAL AREA

**DIRECTIONS**

○ DEVELOP AN AMBULATORY SERVICES DISTRIBUTION PLAN WHICH IDENTIFIES PREFERRED LOCATIONS AND SERVICE MIX FOR PHYSICIANS, DIAGNOSTIC/TREATMENT CENTERS, AND OTHER AMBULATORY HEALTHCARE FACILITIES

○ CREATE A MANAGEMENT STRUCTURE FOR THE AMBULATORY SERVICES NETWORK WHICH IS INTEGRATED WITH THE CLINICS AND DEPARTMENTS, AND WHICH ALSO FOSTERS COMPETITIVE SERVICE DELIVERY

○ SINCE IT IS IN THE BEST INTERESTS OF OSU, ENCOURAGE AND ASSIST MEDICAL STAFF AND CLINICAL DEPARTMENTS IN IDENTIFYING THOSE SPECIFIC PHYSICIANS WHO WOULD LIKE TO AFFILIATE WITH THE AMBULATORY NETWORK OR ARE SEEKING ASSISTANCE IN THE DEVELOPMENT OR TRANSITION OF THEIR PRACTICE. THE HOSPITALS SHOULD INVEST FUNDS NECESSARY TO ACCOMPLISH THE CREATION OF THIS DISTRIBUTION NETWORK/SYSTEM
**OSU**

**HOSPITALS AND CLINICS**

**LOCAL AREA STRATEGY -- CONTINUED**

<table>
<thead>
<tr>
<th>PRINCIPAL STRATEGY</th>
<th>DIRECTIONS -- CONTINUED</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSIST MEDICAL STAFF IN IDENTIFYING SPECIFIC COMMUNITY BASED PHYSICIANS WHO WISH TO AFFILIATE WITH AN OSU NETWORK OF PHYSICIANS AND AMBULATORY SERVICE CENTERS WITHIN FRANKLIN COUNTY AND IN SELECTED NEARBY POPULATION CENTERS; SPECIFICALLY, THOSE COUNTIES THAT COMPRISE THE COLUMBUS METROPOLITAN STATISTICAL AREA</td>
<td>o STRENGTHEN OR CREATE REFERRAL RELATIONSHIPS FOR TERTIARY SERVICES THAT NOW RESULT IN PATIENT OUTMIGRATION FROM FRANKLIN COUNTY</td>
</tr>
<tr>
<td></td>
<td>o STRENGTHEN CME, SPEAKER'S BUREAU AND ALUMNI RELATIONS PROGRAMS</td>
</tr>
<tr>
<td></td>
<td>o OSU HOSPITALS MEDICAL STAFF SHOULD BECOME MORE ACTIVELY INVOLVED IN MEDICAL SOCIETY ACTIVITIES AT THE LOCAL (FRANKLIN COUNTY) AND STATEWIDE LEVELS</td>
</tr>
<tr>
<td></td>
<td>o DEVELOP UNIVERSITY HOSPITALS AS A DIRECT PROVIDER OF SERVICES TO STATE, LOCAL AND FEDERAL GOVERNMENT EMPLOYEES, AS WELL AS TO LOCAL BUSINESSES</td>
</tr>
</tbody>
</table>
LOCAL AREA STRATEGY

PRINCIPAL STRATEGY:

Establish an OSU controlled or affiliated network of physicians and ambulatory service centers within Franklin County and in selected nearby population centers.

RATIONALE:

OSU hospitals and clinics must maintain the appropriate mix of primary, secondary, tertiary patients required to support clinical teaching activities and maintain financial viability. Primary and secondary patients must come from an area geographically proximal to Columbus. Competitive considerations, including alternative delivery system contracting, dictate that the network serving this local area be owned and controlled by OSU. This geographically distributed network of physician and ambulatory care services is essential to providing the accessibility and convenience necessary to attract patients. While this "owned and controlled" strategy for the local area is not without risk, it is based on a realistic assessment of the present situation: that present physician alignments and referral relationships are such that the potential loss of patient referrals as a result of developing this network is small.
DIRECTIONS:

0 Location and Service Mix

- Physician, diagnostic and treatment services must be brought to patients—not vice versa.

- A detailed plan must be developed to assure that the right mix of services are provided in the appropriate locations. This will principally require a Franklin County network, but other nearby population centers may also be considered if the risk of substantial lost referrals is slight.

- The existing MedOhio system can serve as a basis for this network—but it will require substantial growth and change before it will meet OSU’s needs.

- This network must, by first priority, be competitive with non-teaching community services, while still supporting OSU’s educational programs whenever feasible.
0 Existing Physicians

- Qualified physicians currently practicing in the local areas should be encouraged to join the OSU network.

- OSU should assist physicians seeking to transition their practices and assure that the new practices are part of the network.

- OSU must give high priority to the funds required to expand this controlled area network—without it, future clinical income and patient volume will be sharply constrained.

0 Referral Relationships

- Because of existing hospital-physician alliances, it will be difficult to attract a significant number of referrals from non-network physicians for services which are available elsewhere in Columbus.

- For those tertiary services currently leaving Columbus, referral relationships should be cultivated.

- CME and alumni relations programs can be used to build and strengthen productive referral relationships.
CME and Alumni Relations

- Every effort should be made to maintain good relations with physician competitors in the Columbus area. OSU can still serve as one of their referral options for tertiary/quaternary services.

- CME, speaker's bureaus and Alumni relations programs can build bridge to physicians.

Medical Society Participation

- Active participation by a greater number of OSU faculty in the activities of the Academy of Medicine of Franklin County represents an opportunity to increase OSU physician visibility and build physician-to-physician contacts which become the basis for future referrals.

Hospital Support Services

- Non-competing hospitals can benefit from the skills and expertise available at OSU, and OSU should cultivate this potential demand.

- Contracts for service should be actively sought.
OSU
HOSPITALS AND CLINICS

REFERRAL AREA STRATEGY

PRINCIPAL STRATEGY

ENHANCE THE HOSPITALS’ COMPETITIVE POSITION BY STRENGTHENING RELATIONSHIPS WITH ALL PHYSICIANS IN THE DEFINED REFERRAL AREA (BEYOND THE GREATER COLUMBUS AREA) TO INCREASE TERTIARY REFERRALS, AND SEEK TO ESTABLISH A REGIONALIZED HEALTHCARE DELIVERY SYSTEM MODEL WITH OSUH SERVING AS THE HUB OF THE SYSTEM

DIRECTIONS

- CREATE, MANAGE AND MONITOR CONSUMER- AND PHYSICIAN-ORIENTED REFERRAL PROGRAMS
- FUND AGGRESSIVE ALUMNI AND POST-GRADUATE RELATIONS PROGRAM THROUGHOUT THE STATE OF OHIO
- INCREASE AND STRENGTHEN CME ACTIVITY ON AND OFF CAMPUS FOR PHYSICIAN AND ALLIED HEALTH PERSONNEL THROUGHOUT CENTRAL OHIO
- DEVELOP CONTRACTUAL SERVICE ARRANGEMENTS WITH OTHER CENTRAL OHIO HOSPITALS IN ORDER TO FOSTER INTERHOSPITAL RELATIONSHIPS, LOYALTIES, AND ALLIANCES
- CONSIDER THE ESTABLISHMENT OF A STRONG RELATIONSHIP WITH ONE OR MORE REGIONALLY-BASED MANAGED CARE PLAN(S) TO ENHANCE REFERRALS TO THE MEDICAL CENTER
REFERRAL AREA STRATEGY

PRINCIPAL STRATEGY:

Enhance the hospitals' competitive position by strengthening relationships with all physicians in the defined referral area (beyond the greater Columbus area) to increase tertiary referrals, and seek to establish a regionalized healthcare delivery system model with OSUH serving as the hub of the system.

RATIONALE:

To be a "Top 10" medical school nationally, OSU must have a successful, highly-visible spectrum of tertiary services, and sufficient patient volume to support these costly services. The area immediately surrounding Columbus will not provide all of the needed volume; the area of Central Ohio between 50 and 150 miles from Columbus should also be considered a prime referral area. OSU currently has a strong position in this area, but is under significant competitive pressure. To obtain referrals from physicians in this area, OSU must not be perceived as competitive with them, but rather as supportive of their activities.

DIRECTIONS:

0 Physician Referral Program

- OSU needs a comprehensive physician referral program, which it clearly does not have at present.
- **Significant communications problems exist with physicians in the referral area, although OSU's performance varies by region and specialty.**

- **Physician relations programs must be targeted and executed toward specific geographic areas.**

- **Extensive faculty involvement and support in developing standards of performance and appropriate monitoring systems will be essential for success.**

- **Aggressive follow-up and monitoring of performance in building constructive practices will be required.**

0 **Alumni Relations**

- **OSU College of Medicine alumni represent a large—and greatly underutilized—asset.**

- **Existing programs do not capitalize on many of the referral opportunities which exist.**

- **A significantly enhanced effort would return great economic benefits.**
Continuing Medical Education

- OSU is uniquely positioned to conduct continuing education programs for physicians and allied health professionals across a broad geographic area.

- Successful CME programs will strengthen referral relationships.
PART A

COLLEGE OF MEDICINE
AFFIRMATIVE ACTION STRATEGY
AFFIRMATIVE ACTION

STRATEGY
The College of Medicine is committed to the goals and objectives of Affirmative Action as outlined by President Edward Jennings in the fall of 1987. The plan which follows intends to bring about a significant increase in the number of underrepresented minorities (Blacks, Mainland Puerto Ricans, Mexican-Americans and Native Americans) as students, staff and faculty of the College of Medicine. It should be made explicit that, over the next three to five years, our efforts in the affirmative action arena will be directed toward recruitment and retention of Blacks.

The most recent figures on Black faculty indicate that 1.8% of all medical faculty in United States Allopathic Medical Schools are Black (950 of 52,464). Of these 950 faculty, 225 are found in the historically Black colleges of medicine (Howard, Meharry and Morehouse). At the present time, The Ohio State University College of Medicine is at 2.2% (10 of 457). While this percentage is better than the national figure, we can take little comfort. We must work actively and aggressively to increase the numbers through a three part strategy:

One, increase the numbers of Black and other underrepresented minority medical graduates; two, increase the number of Black and other underrepresented minority housestaff; three, by a combination of national recruitment and retaining our graduates and housestaff, (1 and 2 above), increase the number of Black and other underrepresented minority staff and faculty.

Students

In an initial attempt to increase the number of available minority M.D.'s, the goal of The Ohio State University College of Medicine Affirmative Action Program is to increase the number of minority student graduates of the College of Medicine. Efforts have been directed toward four major objectives to accomplish the project goal. The objectives are: 1) identify and motivate minority students interested in medicine and provide them with information about the appropriate preparation for medical school; 2) enhance the competitiveness of minority premedical students for their admission into medical school; 3) improve the college retention rate for minority medical students; and 4) provide students with financial aid information and assist minority students in securing financial aid.

1 Minority students in Medical Education: (Facts and figures III). Association of American Medical Colleges, March 1987.
The recruitment component is very closely linked with the component to disseminate financial aid information. The Ohio State University College of Medicine Recruitment Facilitator serves as both recruiter and financial aid officer. Most recruitment presentations involve a session on financial aid information. The Recruitment Facilitator also meets with students at all levels of the educational pathway to provide these students and their parents with financial aid counseling. The Recruitment Facilitator's primary emphasis of recruitment is on undergraduate minority students. The Retention Facilitator and other College faculty and staff serve to add recruitment efforts at the junior high school and high school levels. Recruitment activities take a variety of forms including presentations at schools, on-campus visits by groups and individuals, and work with community and alumni groups to get others involved in recruitment. We have continued College and University premedical program visits, presentations at post-baccalaureate programs, and efforts to develop strong on-campus networks that will enable minority premedical students to access The Ohio State University College of Medicine Health Careers Opportunity Program to facilitate entry activities.

There are presently 124 minority students at Ohio State University College of Medicine, including Black (46), Hispanic, (7) and Asian (71) students. The retention support services are offered to all levels of students but are primarily focused on the first-year class. The 1987 entering medical school class at the College enrolled 16 Black students, 3 Hispanic students, and 23 Asian students. A minority student organization was planned by the minority student organization during the first week of classes. The Retention Facilitator offers learning strategies and a test taking skills course for Fall and Winter terms. This material is also offered on an individual basis for students, particularly for students in academic difficulty. Students are referred to these study skills development programs after each examination if their performance is not adequate. The College of Medicine staff, as well as College faculty, monitor student performance and encourage students to utilize academic support services that are a part of the curricular program. The College of Medicine counseling services are designed to handle academic and nonacademic concerns. Study groups are organized by students and staff. Learning resources consist of course reference materials, supplemental books and manuals, board preparation review books, practice test booklets, and previous in-house examinations.

The Summer Pre-Entry Program consists of especially designed courses developed for gross anatomy, learning strategies, neuroanatomy, and physiology by Pre-Entry Program faculty. Gross anatomy was offered as a lecture and laboratory for 6 hrs/wk for eight (8) weeks. Learning strategies was offered for 2 hrs/wk for five (5) weeks. Neuroanatomy and physiology were each offered for 4 hrs/wk for four (4) weeks, one following the other. Biochemistry 511, a regular University course, was available as an alternative to gross anatomy or physiology. No students chose to take Biochemistry 511. However, the Academic Support Programs Director assigned independent study reading in biochemistry and reviewed this material with a few students on an individual basis. Students were also offered computer-assisted instruction in biochemistry and physiology to be done on an individual basis. Also medical student offered cardiopulmonary resuscitation (CPR) for the summer program students.
In addition to basic science coursework, non-academic components to the summer program were offered. An orientation program was provided to acquaint students with faculty, staff, and other students and to introduce students to the program. Students were also provided counseling sessions on anxiety reduction, time management and interpersonal skills. Meetings with other medical students were arranged for discussion as to the best way to gain the most benefit from the summer program and expectations in medical school. Students were also assigned a preceptor with whom to work.

The College of Medicine assisted the Student National Medical Association (SNMA) in planning and sponsoring the first College of Medicine Black Alumni Reunion. The staff assisted the SNMA students in writing a proposal for University funds to sponsor the reunion. The grant proposal was approved for funding in July 1987 and plans were made to hold the reunion in September 1987 in conjunction with the College reunion. Involvement with Black college alumni and community physicians was initiated. Three committees were formed: program, communications, and finance. The main events of the alumni reunion weekend were a presentation/discussion on minority health, continuing education programs, and a scholarship/awards banquet and program. Forty Black alumni of the College attended the reunion and over 200 were in attendance at the scholarship/awards banquet and program. In addition, SNMA members are producing a document on the history of Black medical education at the College of Medicine. Columbus corporations have been contacted for contributions to the scholarship fund and a scholarship drive is planned to obtain funds from alumni and others.

Goal:

Although the College intends to reduce the number of entering medical students by 2% per year for five years, there will be a commitment to enroll at least fifteen black and other underrepresented minority students per year.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum Goal</strong></td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>Ideal Goal</strong></td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

**Financial Resources needed:**

$50,000 of new continuing funds in the College of Medicine Financial Aid Scholarship account for each of the next four years.

As shown in appendix one, 991 Black Americans matriculated into U.S. Allopathic Medical Schools in 1987. This represents 6% of all matriculants in 1987. The College of Medicine matriculated 16 Black Americans into its first year class in 1987, a percentage of 7%. Our goal will allow us to achieve between 7 and 10 percent total enrollment of Black and other underrepresented minorities in the College by 1992. Also, in appendix one, is a projection by the Student Financial Aid Office which shows the needed scholarship dollars to support the Colleges matriculation goal.
Residents and Fellows

The residency training program offers an opportunity for the recruitment and training of Black physicians in preparation for academic positions. At present we have 16 Black and other underrepresented minority housestaff members from among 445, equaling 3.6%. This strategy involves identification of candidates with the appropriate qualifications and interest with the goal of "grooming" minority trainees for a career in academic medicine. The structure will work through the existing match process to make the appropriate placement.

Goal:

To select at least eight new Black and other underrepresented minority residents/fellows in each year of the match program starting in 1989.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Goal</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Ideal Goal</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

Resources Needed:

In order to facilitate the hiring of minority physicians into Fellowship positions, we will:

Actively Pursue through the Provost's Office for 1/3 salary lines.

We are requesting that Fellowship lines in Clinical Departments be included in the Provost's Office definition of new faculty. We will use minority Fellowship appointments as another pathway in the faculty development model.

Doctoral Candidates (non-M.D.)

In addition to regular student of the College of Medicine, most basic science department have a number of graduate students who are candidates for the degree, Doctor of Philosophy. On an average, twenty such candidates are granted their Ph.D. degree by the College of Medicine each year. (See graph under Appendix II)

One hundred forty-four Ph.D. candidates are currently enrolled in College of Medicine departmental programs. Of these, seventy-four are women (51%). Of the 116 who are citizens of the United States, ten are Asian/Pacific Islanders (8.6%), two are Black (.017%), and one is Hispanic (.009%). (See departmental charts in Appendix II).

These figures are important to the overall affirmative action goals of the College of Medicine as many faculty in the basic science departments hold the degree, Ph.D., and these students are potential basic science faculty members.
The goals of the College of Medicine are to keep the percentage of women at its current high rate while increasing the numbers of Blacks and underrepresented minorities by the following:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Faculty

Faculty recruitment and retention strategies developed by departments and units in the College of Medicine and Health Services showed a great deal of concern for increasing the numbers of women and underrepresented minorities through the College's Faculty Recruitment Programs. Almost all Departments point out that the applicant pool is not sufficient to enable them to identify or recruit a sufficient number of females or Blacks. The worst case is illustrated by the Department of Otolaryngology and the Department of Pathology (see attached departmental appendices). Dr. David E. Schuller, Chairperson of the Department of Otolaryngology reports:

National statistics from AAMC indicate that Black faculty in Otolaryngology is represented by 0%. The American Speech and Hearing Association reports that in 1986 there were 5500 clinically certified Audiologists, with 96.2% being white and 1.2% Black, with the remainder being other minorities.

Dr. Donald Senhauser, Chairperson of the Department of Pathology reports equally grim data:

Thus, in any one year, no more than 5-7 Black pathologists enter the pool for positions in the 120 academic pathology departments. Nearly all of these become concentrated in the predominantly Black medical schools, for example Meharry and Howard Universities.

Departments have put a number of strategies into effect to compensate for the insufficient applicant pool. It is safe to reiterate that the most effective strategy for all disciplines is that of increasing the numbers of underrepresented minorities matriculating into and graduating from our College of Medicine, and then recruiting minorities for our residency training programs with the hope and intention of nurturing them through their training and convincing them to make The Ohio State University their academic home.

Many other strategies have been proposed and are in current use by various Departments. The Department of Ophthalmology employs the following strategy:
The strategy involves identification of a specific candidate with appropriate qualification and probably availability, the location of adequate funding sources, and the tailoring of existing departmental capabilities and interests so as to match these three essentials to the goals of advancing knowledge in a selected, very important subject and developing an important future member of the Department.

The Department of Physiology, and other Departments place recruiting responsibilities on all faculty members attending national and regional professional meetings. Dr. Wood describes their strategy as follows:

The Department registers with the placement services of various national meetings and members of the departmental faculty are charged with canvassing the conventions for likely minority candidates.

Other Departments, such as Ophthalmology, emphasize encouraging candidates for faculty positions to seek outside funding sources to augment their research efforts. The Robert Wood Johnson Minority Medical Faculty Development Program was mentioned as one funding source. A number of Departments cite making personal contact with coordinators of residency programs in their specialty and inquiring about qualified minority candidates. Special emphasis is put on nurturing relationships with administrators and faculty members in the three traditionally Black colleges of medicine.

The College of Medicine intends to monitor closely the progress of minority faculty members through their chosen career track and make every effort to retain faculty. Affirmative Action Officers in each Department and the Associate Dean for Academic Affairs are charged with this responsibility.

Currently, there are ten Black faculty members in the College of Medicine, the total full-time faculty of which numbers 457. This yields a percentage of 2.2. While this is above the national average of 1.8%, the College will strive to meet the following goals:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Goal</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ideal</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

At the end of five years, this increase in faculty members from underrepresented minorities, would bring our total to 25 faculty members (minimum goal) and 35 faculty members in the ideal scenario. Given that faculty size is projected to grow only minimally, this would mean that the percentage of Black faculty would then equal 5.2% if the minimum goal were attained and 7.3% should the ideal goal be reached.
Staff

Departments and special units report 632 positions in the following categories: (03) professional/non-faculty, (04) clerical/secretarial, and (05) technical/paraprofessional. Of these positions 50 are held by Blacks, and 44 are held by other minorities. Women comprise 458 of the 632 positions, or 73%. Blacks comprise approximately 7% of the 632 positions. (Please see Staff Positions Chart in Appendix IV).

While these figures are fairly heartening, the Colleges hopes to improve both the numbers of Blacks and other minorities over the next five years.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Blacks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Goal</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ideal</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Minimum Goal</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ideal</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

By meeting this minimum goal, within five years, Blacks in staff positions would equal 10% and other minorities would equal 8.5%, if professional/non-faculty, clerical/secretaries, and technical/paraprofessional employee numbers remain fairly constant.

Monitoring and Reviewing

Each Department shall have an Affirmative Action Officer who will monitor all Search Committees and review recommendations for appointment, including civil service and administrative and professional appointments, against the current minority census and the five year goals of that Department, before an offer is extended to any candidate. The Affirmative Action Officer shall report to his or her Department Chairperson, the affect of each appointment on the short and long-range goals of that Department.

In the case of faculty appointments, whether they be tenure track appointments or not, the recommendations of the Search Committee shall be conveyed to the Associate Dean for Academic Affairs, with a written narrative describing the impact of this appointment, in light of the current minority census of the Department and the short and long-range goals of that Department. The Associate Dean for Academic Affairs shall have the oversight responsibility for the Affirmative Action plan for the College, as a whole, and will judge the efficacy of each and every appointment against the goals of the College. No formal offer shall be made before approval has been granted by the Associate Dean for Academic Affairs.

The Associate Dean for Academic Affairs shall also have the responsibility of monitoring the retention of members of underrepresented groups and will follow closely their timely progress through the promotion and/or tenure process.
The Associate Dean for Academic Affairs will also have the responsibility of conveying to the Vice President for Academic Affairs and Provost the Departmental and College progress toward meeting our Departmental and College goals, on an annual basis.

The Chief Fiscal Officer shall be responsible for monitoring Administrative and Professional and Civil Service appointments in light of the goals of the College.

In the case of student admission and retention goals, the Associate Dean for Student Affairs, the Director of Admissions, and the Associate to the Dean for Student Affairs shall all have responsibility for monitoring admission and retention data in light of the goals of the College. Graduate students (Ph.D. candidates) shall be monitored by both the Department Affirmative Action Officer and, ultimately, by the Associate Dean for Academic Affairs.

Monitoring the progress toward attaining the goals of the College for women and underrepresented minorities in residency programs shall be the responsibility of the Associate Dean for Clinical Affairs and Medical Director of University Hospitals. This individual approves all residency contracts and is thus in the best position to monitor and report these goals.

**Resources Needed**

In order to facilitate the hiring of minority faculty, we will:

- Actively pursue funds available from the Provost's Office for 1/3 salary lines. Use vacant lines available in departments and loan 2/3 of lines to departments which do not have any available lines. These will be repaid by the next vacant line of the department.

We have requested start-up funds for minority faculty in our one-time equipment requests for this budget year.

We will continue to use Total Resource Management to fund this high priority of affirmative action. This includes using resources from practice income, release time, other research funds, development funds, as well as other University sources.
PART B

UNIVERSITY HOSPITALS
EQUAL OPPORTUNITY/AFFIRMATIVE ACTION POLICY
THE OHIO STATE UNIVERSITY HOSPITALS

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION POLICY

PURPOSE OF POLICY

To provide guidelines for Equal Employment Opportunity by means of an Affirmative Action Program.

POLICY STATEMENT

The Ohio State University Hospitals policy of equal opportunity is founded on sound business judgement and the basic belief in respect for all individuals. It has been both the traditional and current policy of the Hospitals to extend to all individuals equal access to employment opportunities, programs and other activities without regard to race, color, religion, sex, national origin, handicap or age.

GENERAL POLICY OBJECTIVES

- To achieve and maintain a racially diverse workforce by encouraging appropriate employment levels of Black and other underrepresented groups by way of valid recruitment and selection practices. All hiring goals will be determined based on the availability of qualified minority candidates in the Columbus area, Central Ohio and nationally.

- To eliminate artificial and overtly discriminatory practices affecting minority group members by examining all personnel action requests and enforcing the use of validated employment practices.

- To establish accountability and responsibility for Affirmative Action Plan implementation through regular performance appraisal. Special plan initiatives will be directed towards Administrative, Managerial and Supervisory levels where hiring, training, promotions, assignment, compensation and disciplinary action decisions are made.

- To promote harmonious employee relations by further developing personnel policies and fair employment practice, increasing employee awareness of Affirmative Action initiatives and developing training programs to insure fair and equitable treatment of minority staff.

- To build a more positive environment by communicating the social and business ramification resulting from an effective affirmative action program.
PROCEDURE

Purpose: To describe the procedures necessary to achieve the objectives of the Affirmative Action Plan.

I. HUMAN RESOURCE ACTIVITIES

A. Recruitment

All applicants regardless of race, color, religion, sex, national origin, handicap or age will be considered for employment opportunities in accordance with the Hospitals Appointment of Staff Procedure, #2-02-21. In addition, the following guidelines will be adhered to:

1. The Office of Hospital Human Resources will, on an annual basis, establish numerical goals to correct instances of minority underrepresentation within the various EEO categories. These goals will serve as benchmarks for recruitment efforts focused primarily at the Administrative, Managerial and Professional levels.

2. The statement, "The Ohio State University Hospitals is an Equal Opportunity/Affirmative Action Employer," will be used in all advertisements placed in journals, newspapers and other periodicals for recruitment purposes. In addition, prospective employees will be notified of our equal employment philosophy via the employment application form and signs posted on the bulletin boards.

B. Internal Promotions

The Ohio State University Hospitals maintains a policy of promotion from within pursuant to the provisions of Chapter 124 of the Ohio Revised Code. All eligible and qualified staff will receive consideration for job vacancies without regard to race, color, sex, religion, age, or national origin. Areas within the Hospital which indicate underutilization of minorities will receive good faith efforts when promotional opportunities are available.

C. Training and Development

The Hospitals will establish and vigorously pursue programs to include the protective groups in training and development. Plans to stimulate career interest and growth opportunities are encouraged; such plans may include course study, rotational job assignments, OSU Professional Development Program activities and other self-development assignments consistent with individual needs.
II. COMMUNICATION OF EQUAL EMPLOYMENT OPPORTUNITY POLICY

The Office of Hospitals Human Resources will take appropriate steps to insure that all personnel know of the Hospitals commitment to honor Equal Employment Opportunity/Affirmative Action principles in all of its personnel and business-related activities. General EEO information will be communicated in or on:

- Bulletin Boards
- Employee Handbook/Orientation
- Policy and Procedure Manual
- Pulse Publication
- Management Council/Supervisory Group Meeting
- Training and Development Programs

III. AFFIRMATIVE ACTION PROGRAM RESPONSIBILITIES AND ACCOUNTABILITIES

A. Administrator, Human Resources

The Administrator for Human Resources will be responsible for the general administration of the plan. Further, this individual will be accountable for the continued review of all Hospital policies, employment practices and procedures pertaining to Affirmative Action and will make recommendations consistent with equal employment opportunity development.

B. Members Administrative Group, Management Council and Supervisory

All Hospital administrators, managers and supervisors shall adhere to the policy and the intent of the Affirmative Action Plan by accepting responsibility for all applicable policy initiatives, goals, and timetables affecting their areas.

C. Office of Hospitals Human Resources

The Office of Hospitals Human Resources will be responsible for program planning, analysis and compliance activities as it relates to Affirmative Action. In addition, this office will serve as a liaison between the Hospitals and the University's Office of Human Relations, the Affirmative Action Advisory/Policy Subcommittee, enforcement agencies, minority/womens groups, disability groups and other community organizations.
IV. INTERNAL MONITORING AND REPORTING SYSTEM

In order to insure that the Affirmative Action Plan is being met, the following internal evaluation and reporting system has been implemented:

- The Office of Human Resources will continually monitor records of referrals, placements, transfers, promotions and terminations at all levels to assess whether they are consistent with our Affirmative Action initiatives.

- Formal reports regarding Affirmative Action activities will be disseminated to the Hospitals Administrative Group on a quarterly basis to determine the degree to which the Hospitals goals and objectives are being met. A year-end report will be prepared on an annual basis outlining plan accomplishments and recommendations.

- The Hospitals Affirmative Action Plan will be updated on an annual basis with a revised workforce analysis, recruitment/development goals and specific activities designed to achieve these goals. Copies of this plan will be distributed to the Hospitals Executive Director, Administrative Group, and the Office of Human Relations for review.
Page 502 is blank
APPENDIX VI

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
November 18, 1988

Presented to the Investments Committee and
Adopted by the Board of Trustees December 2, 1988
(See page 365)
### Endowment Composition

<table>
<thead>
<tr>
<th>Description</th>
<th>06-30-88</th>
<th>11-18-88</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$38,004,379</td>
<td>18.55%</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>10,454,591</td>
<td>5.10%</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,428,707</td>
<td>16.81%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>17,462,592</td>
<td>8.53%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>33,282,386</td>
<td>16.25%</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$133,632,653</td>
<td>65.24%</td>
</tr>
<tr>
<td><strong>Fixed Income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cambridge</td>
<td>$921,925</td>
<td>0.45%</td>
</tr>
<tr>
<td>Centerre Trust</td>
<td>21,547,467</td>
<td>10.52%</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>9,983,561</td>
<td>4.87%</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>22,300,069</td>
<td>10.89%</td>
</tr>
<tr>
<td>OSU - GRMA</td>
<td>9,954,372</td>
<td>4.86%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,502,940</td>
<td>2.17%</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$71,210,234</td>
<td>34.76%</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td>$204,842,889</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$43,089,186</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$247,932,075</td>
<td>$250,248,660</td>
</tr>
</tbody>
</table>

(1) Pending Board of Trustee approval of a $275,000 transfer from the Income Reserve.
(2) Real Estate reported at most recent appraised value.
## Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value November '87 to November '88</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.52% (1)</td>
<td>8.91%</td>
<td>12.43%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>2.10% (2)</td>
<td>13.03%</td>
<td>15.13%</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>3.61% (3)</td>
<td>9.19%</td>
<td>12.80%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>3.32%</td>
<td>15.79%</td>
<td>19.11%</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>3.79% (4)</td>
<td>13.72%</td>
<td>17.51%</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.60%</td>
<td>10.11%</td>
<td>13.71%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Real Estate:</th>
<th>% Yield</th>
<th>%</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.37%</td>
<td>0</td>
<td>4.37%</td>
</tr>
</tbody>
</table>

## Fixed Income:

| Bonds (Cambridge) | 7.35% (5) | (3.91)% | 3.44% |
| Bonds (Centerre Trust) | 8.43% (6) | (.25) | 8.18% |
| Bonds (Diff & Phelps) | 8.66% (7) | (.62) | 8.04% |
| Bonds (STW Fixed Income) | 9.10% (8) | (2.15) | 6.95% |
| Bonds (OSU - GNMA) | 9.81% (9) | .33 | 10.14% |
| Bonds (OSU Managed) | 7.20% (10) | (1.90) | 5.30% |
| Merrill Lynch Corporate/ Government Master | 9.42% | (1.56) | 7.86% |

1. 20.4% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 8.3%.
2. 3.2% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 7.5%.
3. 38.6% of Siebel portfolio is made up of cash and cash equivalents which earn 8.3%.
4. 48.3% of OSU Managed portfolio is made up of cash and cash equivalents which earn 8.3%.
5. 100.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 7.5%.
6. 0.9% of Centerre Trust portfolio is made up of cash and cash equivalents which earn 7.5%.
7. 1.2% ofDiff & Phelps portfolio is made up of cash and cash equivalents which earn 7.5%.
8. 0.3% ofSTW Fixed Income portfolio is made up of cash and cash equivalents which earn 7.5%.
9. 1.8% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.3%.
10. 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 8.3%.
11. Not able to compare 12 months.
12. Endowment Fund Income through November 30, 1988, totaled approximately $6,014,000.
13. Income from University Cash Investments through November 30, 1988, totaled approximately $5,495,000.

## Change in Total Valuation

<table>
<thead>
<tr>
<th>Current Fiscal Year</th>
<th>Asset Allocation</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-88)</td>
<td>$247,932,075</td>
<td>Equities $99,311,373</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>5,964,868</td>
<td>Fixed Income $64,058,536</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(24,000)</td>
<td>Real Estate $36,458,000</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>(3,624,283)</td>
<td>Cash $50,420,751</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$250,248,660</td>
<td>Total Portfolio</td>
</tr>
</tbody>
</table>

505
### Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Real Estate

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>

506
The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>Apple Computer, Inc.</td>
<td>Chicago</td>
<td>$38.5000</td>
<td>$154,000.00</td>
<td>$960.00</td>
</tr>
<tr>
<td>7,000</td>
<td>Archer Daniels Midland Co.</td>
<td>&quot;</td>
<td>$21.0000</td>
<td>$147,455.00</td>
<td>700.00</td>
</tr>
<tr>
<td>4,900</td>
<td>Baltimore Gas &amp; Electric Co.</td>
<td>&quot;</td>
<td>$32.2070</td>
<td>$158,132.80</td>
<td>9,800.00</td>
</tr>
<tr>
<td>3,300</td>
<td>Batt Laboratories, Inc.</td>
<td>&quot;</td>
<td>$48.2500</td>
<td>$159,225.00</td>
<td>5,544.00</td>
</tr>
<tr>
<td>3,700</td>
<td>Boise Cascade Corp.</td>
<td>&quot;</td>
<td>$42.6080</td>
<td>$157,890.10</td>
<td>5,180.00</td>
</tr>
<tr>
<td>4,800</td>
<td>Consolidated Freightways, Inc.</td>
<td>&quot;</td>
<td>$32.7500</td>
<td>$157,512.00</td>
<td>4,704.00</td>
</tr>
<tr>
<td>10,400</td>
<td>Genentech, Inc.</td>
<td>&quot;</td>
<td>$15.2139</td>
<td>$158,900.56</td>
<td>0.00</td>
</tr>
<tr>
<td>3,100</td>
<td>Hilton Hotels Corp.</td>
<td>&quot;</td>
<td>$49.9785</td>
<td>$155,134.78</td>
<td>3,100.00</td>
</tr>
<tr>
<td>3,600</td>
<td>Lockheed Corp.</td>
<td>&quot;</td>
<td>$43.0000</td>
<td>$155,034.00</td>
<td>5,760.00</td>
</tr>
<tr>
<td>1,900</td>
<td>Medtrionics, Inc.</td>
<td>&quot;</td>
<td>$83.5000</td>
<td>$158,773.50</td>
<td>2,280.00</td>
</tr>
<tr>
<td>3,900</td>
<td>PepsiCo, Inc.</td>
<td>&quot;</td>
<td>$41.1237</td>
<td>$160,635.93</td>
<td>3,276.00</td>
</tr>
<tr>
<td>2,900</td>
<td>Southern New England Telecom.</td>
<td>&quot;</td>
<td>$54.9028</td>
<td>$159,406.70</td>
<td>8,700.00</td>
</tr>
<tr>
<td>1,400</td>
<td>Time, Inc.</td>
<td>&quot;</td>
<td>$112.9129</td>
<td>$158,169.06</td>
<td>1,400.00</td>
</tr>
<tr>
<td>13,800</td>
<td>American Greetings Corp.</td>
<td>Nicholas-Applegate</td>
<td>$20.6069</td>
<td>$284,375.00</td>
<td>9,108.00</td>
</tr>
<tr>
<td>12,000</td>
<td>Black &amp; Decker Corp.</td>
<td>&quot;</td>
<td>$22.9370</td>
<td>$275,964.00</td>
<td>4,800.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Union Bank of San Francisco</td>
<td>&quot;</td>
<td>$27.0000</td>
<td>$270,000.00</td>
<td>10,800.00</td>
</tr>
<tr>
<td>12,500</td>
<td>Motorola, Inc.</td>
<td>Siebel</td>
<td>$40.0000</td>
<td>$500,875.00</td>
<td>8,000.00</td>
</tr>
</tbody>
</table>

$3,371,483.43 $84,112.00
The Ohio State University
Common & Preferred Stock

Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>American Home Products Corp.</td>
<td>Chicago</td>
<td>83.0000</td>
<td>49,759.34</td>
<td>$12,039.79</td>
</tr>
<tr>
<td>2,100</td>
<td>Avery International Corp.</td>
<td>&quot;</td>
<td>22.7500</td>
<td>47,636.90</td>
<td>21,422.90</td>
</tr>
<tr>
<td>1,200</td>
<td>Borden, Inc.</td>
<td>&quot;</td>
<td>56.8750</td>
<td>68,169.72</td>
<td>56,835.43</td>
</tr>
<tr>
<td>1,400</td>
<td>Cincinnati Bell, Inc.</td>
<td>&quot;</td>
<td>44.1800</td>
<td>61,758.93</td>
<td>18,494.45</td>
</tr>
<tr>
<td>3,700</td>
<td>Dominion Resources, Inc.</td>
<td>&quot;</td>
<td>44.5000</td>
<td>164,404.01</td>
<td>36,897.87</td>
</tr>
<tr>
<td>4,500</td>
<td>Dow Jones &amp; Co.</td>
<td>&quot;</td>
<td>33.5000</td>
<td>150,452.47</td>
<td>(7,777.43)</td>
</tr>
<tr>
<td>5,900</td>
<td>Fuller (H.B.) Co.</td>
<td>&quot;</td>
<td>25.5000</td>
<td>150,450.00</td>
<td>(8,850.00)</td>
</tr>
<tr>
<td>5,500</td>
<td>May Department Stores Co.</td>
<td>&quot;</td>
<td>35.7620</td>
<td>196,326.94</td>
<td>91,835.27</td>
</tr>
<tr>
<td>500</td>
<td>New Process Co.</td>
<td>&quot;</td>
<td>40.0000</td>
<td>19,966.83</td>
<td>1,559.33</td>
</tr>
<tr>
<td>1,200</td>
<td>Newell Corp.</td>
<td>&quot;</td>
<td>27.0390</td>
<td>32,367.71</td>
<td>13,492.33</td>
</tr>
<tr>
<td>1,100</td>
<td>Novell Corp. Cl. B</td>
<td>&quot;</td>
<td>21.0000</td>
<td>23,100.00</td>
<td>3,300.00</td>
</tr>
<tr>
<td>1,200</td>
<td>Pfizer, Inc.</td>
<td>&quot;</td>
<td>57.3750</td>
<td>68,759.70</td>
<td>52,118.53</td>
</tr>
<tr>
<td>500</td>
<td>Sara Lee Corp.</td>
<td>&quot;</td>
<td>47.7750</td>
<td>23,854.20</td>
<td>4,139.82</td>
</tr>
<tr>
<td>8,300</td>
<td>Shared Medical Systems Corp.</td>
<td>&quot;</td>
<td>16.1250</td>
<td>133,837.50</td>
<td>(22,825.00)</td>
</tr>
<tr>
<td>9,000</td>
<td>Standard Register Co.</td>
<td>&quot;</td>
<td>15.0000</td>
<td>135,000.00</td>
<td>(19,746.00)</td>
</tr>
<tr>
<td>5,100</td>
<td>Times Mirror Co.</td>
<td>&quot;</td>
<td>34.2500</td>
<td>174,337.67</td>
<td>(3,489.22)</td>
</tr>
<tr>
<td>3,000</td>
<td>Valspar Corp.</td>
<td>&quot;</td>
<td>22.7500</td>
<td>68,052.72</td>
<td>(10,187.28)</td>
</tr>
<tr>
<td>8,000</td>
<td>Arco Chemical Co.</td>
<td>Nicholas-Applegate</td>
<td>28.2630</td>
<td>225,616.12</td>
<td>(35,948.88)</td>
</tr>
<tr>
<td>6,700</td>
<td>General Motors Corp. Cl. E</td>
<td>&quot;</td>
<td>40.1080</td>
<td>268,312.64</td>
<td>(25,269.56)</td>
</tr>
<tr>
<td>16,500</td>
<td>Medco Containment Services, Inc.</td>
<td>&quot;</td>
<td>12.6970</td>
<td>209,500.00</td>
<td>(69,172.50)</td>
</tr>
<tr>
<td>2,900</td>
<td>Quaker Oats Co.</td>
<td>&quot;</td>
<td>57.4510</td>
<td>166,428.34</td>
<td>5,440.64</td>
</tr>
<tr>
<td>9,400</td>
<td>Trinity Industries, Inc.</td>
<td>&quot;</td>
<td>28.3434</td>
<td>265,855.01</td>
<td>(1,110.34)</td>
</tr>
<tr>
<td>174</td>
<td>American Electric Power Co., Inc.*</td>
<td>OSU</td>
<td>28.3750</td>
<td>4,842.08</td>
<td>2.71</td>
</tr>
<tr>
<td>128</td>
<td>General Motors Corp.*</td>
<td>&quot;</td>
<td>80.1250</td>
<td>10,099.13</td>
<td>11.13</td>
</tr>
<tr>
<td>5,000</td>
<td>Digital Equipment Corp. Siebel</td>
<td>&quot;</td>
<td>93.5340</td>
<td>467,204.41</td>
<td>(243,014.48)</td>
</tr>
<tr>
<td>21,150</td>
<td>Weyerhaeuser Co.</td>
<td>&quot;</td>
<td>24.0520</td>
<td>507,202.34</td>
<td>(200,756.86)</td>
</tr>
</tbody>
</table>

* Gift.

$3,693,304.71 ($330,557.35)
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issuer, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond 8.875% 08/15/17</td>
<td>Cambridge</td>
<td>8.8778</td>
<td>8.8758</td>
<td>99.9687</td>
<td>$899,718.75</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$899,718.75
The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss)</th>
<th>On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond 8.875% 08/15/17</td>
<td>Cambridge</td>
<td>98.0469</td>
<td>$882,421.88</td>
<td>$(17,296.87)</td>
<td>$882,421.88</td>
</tr>
<tr>
<td>Description</td>
<td>Year</td>
<td>Yield</td>
<td>Acquired</td>
<td>Invested</td>
<td>Appraised Value</td>
<td>Date</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>------</td>
<td>-------</td>
<td>----------</td>
<td>----------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Building and 3.295 acres at 900 Kilmer Road</td>
<td>1962</td>
<td>10.46</td>
<td>1962</td>
<td>435,204</td>
<td>1,400,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kilmer Road</td>
<td>1964</td>
<td>12.00</td>
<td>1964</td>
<td>825,000</td>
<td>1,900,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 2.633 acres at 1000 Ecamp Road</td>
<td>1961</td>
<td>10.47</td>
<td>1961</td>
<td>659,930</td>
<td>1,150,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Ecamp Road</td>
<td>1971</td>
<td>8.89</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,300,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Ecamp Road</td>
<td>1968</td>
<td>3.15</td>
<td>1968</td>
<td>170,000</td>
<td>370,000</td>
<td>06/87</td>
</tr>
<tr>
<td>46.086 acres of land in Delaware County</td>
<td>1971</td>
<td>0.00</td>
<td>1971</td>
<td>100,793</td>
<td>137,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>1973</td>
<td>0.00</td>
<td>1973</td>
<td>36,666</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>1978</td>
<td>10.00</td>
<td>1978</td>
<td>82,354</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>House and .23 acres of land, 760 Beavercreek Court</td>
<td>1980</td>
<td>0.00</td>
<td>1980</td>
<td>100,000</td>
<td>100,000</td>
<td>06/88</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>1986</td>
<td>0.00</td>
<td>1986</td>
<td>190,000</td>
<td>250,000</td>
<td>10/87</td>
</tr>
<tr>
<td>51 acres of land, 2800 West Granville Road</td>
<td>1962</td>
<td>0.00</td>
<td>1962</td>
<td>160,265</td>
<td>2,762,000</td>
<td>06/87</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>1972</td>
<td>0.00</td>
<td>1972</td>
<td>544,398</td>
<td>4,124,000</td>
<td>06/87</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>1968</td>
<td>0.40</td>
<td>1968</td>
<td>310,538</td>
<td>6,472,000</td>
<td>06/87</td>
</tr>
<tr>
<td>50.539 acres of land, 3371 West Granville Road</td>
<td>1971</td>
<td>0.00</td>
<td>1971</td>
<td>265,079</td>
<td>2,596,000</td>
<td>06/87</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>1986</td>
<td>0.00</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,720,000</td>
<td>06/87</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>1965</td>
<td>0.00</td>
<td>1965</td>
<td>24,000</td>
<td>1,020,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3.557 acres of land, 3505 West Granville Road</td>
<td>1968</td>
<td>0.00</td>
<td>1968</td>
<td>17,114</td>
<td>727,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Undivided one-half interest in building and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.65 acres at 1375 South Hamilton Road</td>
<td>1986</td>
<td>0.00</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>20.006 acres of land on Shier-King Road</td>
<td>1978</td>
<td>0.00</td>
<td>1978</td>
<td>241,848</td>
<td>950,000</td>
<td>05/88</td>
</tr>
<tr>
<td>17.92 acres of land on Etonman Road</td>
<td>1978</td>
<td>3.73</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>1979</td>
<td>5.67</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
</tr>
<tr>
<td>Kahaleek Land contract - Carpenter</td>
<td>1987</td>
<td>12.00</td>
<td>1987</td>
<td>162.00</td>
<td>162</td>
<td>N/A</td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
(2) Amount represents balance on gift from the Kahaleek Estate.

$1,145,130 $36,577,189
Page 512 is blank
APPENDIX VII

STRATEGIC PLANNING AT THE OHIO STATE UNIVERSITY
AN UPDATE
November 23, 1988

(See page 366)
STRATEGIC PLANNING AT THE OHIO STATE UNIVERSITY
AN UPDATE
November 23, 1988

I. Background

This University currently is among the top institutions of higher education in the country. In fact, we can accurately say, among the top in the world. Some of our departments already rank among the best at any university. Faculty in other departments have the potential and desire to be on the cutting edge of instruction and research in their field. With careful long-range academic planning, these faculty can have the support necessary to reach their professional goals.

Successful long-range planning is a cooperative effort. This institution is much too large in scope for centralized academic planning to be effective. We CAN, however, set certain institutional goals. For example, in the last few years we have increased our expectations in the areas of faculty scholarship and instructional performance. But the criteria by which scholarship is measured may, quite correctly, vary from discipline to discipline. The Office of Academic Affairs relies on individual colleges and departments to assist us in determining what these differences in evaluation should be.

During the summer of 1987, the Office of Academic Affairs initiated a formal strategic planning process at the Ohio State University. While many departments and colleges had been engaged in strategic planning for some time, there had not been until that point any systematic effort to coordinate the planning across the university and to relate the college and departmental planning efforts to one another and to the budgetary process.

There are three key overall objectives of the Ohio State strategic planning activity:

(1) through a formal strategic planning process, the university, colleges and departments can best identify the steps that will lead to the Ohio State University moving into the ranks of the nation's pre-eminent public universities by the turn of the century.

(2) through a coordinated planning process, the Office of Academic Affairs will be in a better position to help colleges and departments to work more closely together, to take best advantage of one another's strengths and resources, and to avoid ineffective redundancy of programs;

(3) with clearly articulated and justified plans, the Office of Academic Affairs will be in a position to simplify the budgetary process and to maintain consistency in budgetary allocations over time.
The strategic planning effort was formally launched with a presentation to the Dean's at a retreat in September, 1987. Similar presentations were made to college Executive Committees during the Autumn of 1987. The year since the strategic planning effort was initiated has seen a continuing refinement and sharpening of the concepts and processes of strategic planning as they are most appropriate to the Ohio State University.

It is a truism that while Ohio State is a comprehensive research university, we cannot be all things to all people. The purpose of long-range planning is to allow us to sort through the many possibilities and identify those that bear most centrally on our mission. Moreover, in order to have the resources to accomplish our goals, we must identify which efforts we can no longer support. While our programs cannot continue to grow in size and number indefinitely, they can continue to develop in distinction and productivity if we use our resources wisely.

Let us stress the word "programs". There is no contemplation that departments or colleges will cease to exist. Their roles in providing instruction and research in the broadly defined academic and professional disciplines will persist. What will change is the content of these disciplines, what is to be emphasized and what is no longer relevant, what is relevant to modern society and what is not.

II. Concepts and results

A number of issues need to be addressed at the beginning of long-range planning. The initial question we must ask ourselves is: Where are we now?

That is, where are the program's current strengths and weaknesses, defined against the backdrop of the field in general?

What is the scope of the research, instructional, and service programs? What is missing that is essential to any major program or that would make a strong program more distinguished?

This brings us to the second fundamental question we must ask ourselves: Where do we want to go?

First, what is expected of the program, as an academic unit of a major research university? What are the central areas of focus in the field, and what are the peripheral areas? The answers to these questions are determined largely by the consensus of the academic
field nationally, but there may be local considerations that give a program a special flavor.

Second, which are the best programs in this field in the country and the world? What makes them the best?

Third, where do we see the field going? Which areas have peaked and which are just now beginning to attract attention? What interdisciplinary developments are beginning to emerge that will require the combined efforts of a number of programs?

In effect, these kinds of questions all bear on the same fundamental issue: Where must we be if the department is to be one of the best?

In other words: Where are we now, and where do we want to go?

Finally there is a third natural, fundamental question: How do we get there?

What specific steps can we take to move the program forward? What are the available and projected resources? What are the contingencies that must be considered?

What new programs should we be planning now for development over the next few years? What interdisciplinary efforts could be productive?

The three fundamental issues, then, are: Where are we now? Where do we want to go? How do we get there? The essential point of the long-range planning process is to get us into the habit of regularly engaging in long-range THINKING. There are no simple answers to these fundamental questions, and most importantly, the answers change over time. Through long-range thinking, we constantly review our current state, our resources, our future directions, while we make decisions that affect our ability to achieve our objectives.

Let us finally consider the potential outcomes of long-range planning. There are many units that have been carrying out such planning for some time. The fruits of their efforts are significant, and we can learn from their successes. The following example is illustrative of what we can achieve.

The Department of Physics has been fortunate to attract a Nobel Prize winning scientist to its faculty. While there is no
doubt that fortune plays a role in achieving such a success, it is important to realize that the ability of a department to attract such a distinguished individual is the outcome of careful, long-range planning.

Five years ago, the Physics department developed a plan. There were four main components. First, certain key areas were identified for programmatic development, and the decision was made to deemphasize and phase out other areas. Second, the commitment was made to bring in only the very best people, regardless of the temporary difficulties that might result. Third, the commitment was made to facilitate the development of junior faculty, those in whom the future of the department would lie. And finally, there was an explicit recognition that this department would move aggressively to seize on "golden opportunities" whenever they arose, regardless of the directions laid out in the programmatic plan.

Every major departmental decision since that time has been made with close attention to the key strategic issues facing this department: Where are we now, where do we want to be, and how do we get there. Even (or should we say "especially") at the level of junior appointments, the Physics department carefully considered the qualifications of applicants in all relevant areas. In several years, no offers were made even though there were available positions, because there were no suitable applicants. One outcome of this careful process is that this year three junior members of the Department of Physics won prestigious Presidential Young Investigator awards.

By focusing their efforts in this way, the Physics department was able to compete successfully for an Academic Challenge award in the area of condensed matter physics. In order to compete for such an award, a department must identify areas of strength, and make the commitment to select a single area or small group of areas in which to build excellence.

Next, by building areas of strength, this department was able to compete successfully for an Eminent Scholar position in materials research and condensed matter physics. The individual who now fills this position adds additional distinction to an already strong department, and will enhance the productivity of his colleagues.

This brings us to the present. By careful planning, this department has created an intellectual environment able to attract a Nobel Prize winning physicist. Looking back, we can see a series of decisions, all based on long-range planning and demonstrating long-range thinking, that enabled the department to
take advantage of opportunities as they arose. This is the essence of long-range planning.

III. Organization of planning

Let us turn now to the organization of the planning process at the University. It is important to recognize that while the President and the Provost provide essential leadership to the University, the success of a planning process depends on the participation, the talent, and the enthusiasm of the faculty. It is the faculty who can best assess strengths and weaknesses, evaluate the competition, and evaluate the likelihood of success of various alternative strategies.

Effective long-range planning requires a clear understanding of not only the strengths and weaknesses of individual programs, but also a knowledge of how each program corresponds with the directions the field is taking nationally and internationally. This understanding and knowledge must come out of the college. Only at a level close to the activity of the departments can a determination be made of which programs are on the cutting edge of research and instructional innovation, and which should be downsized through attrition because they are no longer productive. Those programs that are a college priority will, in many cases, receive additional resources through reallocated funds.

In the academic arena, the overall objective of long-range planning is to identify ways in which the faculty can achieve excellence. It is the intent of the Provost and his staff to work with the faculty through the Deans, Directors, department chairs, and faculty groups to identify what their specific goals are, and how to reach them.

We cannot achieve University-wide goals of qualitative growth if we do not work together. While the Office of Academic Affairs can suggest guidelines for attaining academic goals, the most critical decisions must be made at the college level. The decisions made in these areas will determine the direction and quality of academic programs at this University well into the 21st century.

Thus, the college is a key unit in the planning process. Typically, the various academic programs that are carried out within a college have a certain affinity for one another, in that together they comprise a reasonably coherent intellectual area. Resources that can be identified at the college level often serve the needs of more than one program. For example, in the College of Humanities the Foreign Language Center provides a focus that ties together efforts in the many departments that are engaged in
foreign language instruction. Planning in this area concerning, for example, the introduction of computers into foreign language instruction, can be most effectively done at the college level. The ambition of the faculty involved with this Center is for Ohio State to enhance its reputation as one of the leading institutions in the area of language instruction, and to share in the pride and professional productivity that comes with such recognition.

There are in fact many intellectual areas that do not reside solely within a single department, but which cut across departments or even across colleges. In order to stimulate the development of such areas, the perspective from the college level is essential. Consider the example of the Advanced Computing Center for the Arts and Design, or ACCAD. The mission of this Center is to stimulate and carry out research on the use of computers in artistic creativity and instruction in the arts. The areas of the arts that have been and will be impacted by computing range from music to dance and theatre, and from studio art to photography and cinema. ACCAD already has a preeminent national reputation. The promise for the future consists not only of continuing success for the Center itself, but also a growing national reputation for the College of the Arts as a focus for groundbreaking work that applies new technologies to the task of artistic creativity. Again, the payoff for the faculty will be manyfold, but perhaps most important will be the creation of an environment in which they can continue to grow in productivity and distinction.

While the college provides a necessary perspective, departments, of course, play a key role in the planning process. The University's continued march towards excellence will result in large part from the efforts of its many departments. For the vast majority of faculty, the department is their primary home. Being a member of a distinguished department is in itself a source of pride. Having outstanding colleagues and students makes us as faculty more productive and makes our work better and more satisfying.

IV. The role of faculty and administrators in planning

Another point that cannot be stressed too strongly is that faculty and administrators must develop a consensus in order for a planning exercise to be successful. Let us consider the example of the College of Dentistry. In 1981, the College of Dentistry had a strong clinical program, but only $70,000 in external research funding. At that time, the college committed itself to an active role in the University's focus on excellence. It entered into a period of intense analysis during which decisions were made about how to achieve this goal. This was by
no means a painless process, but it was handled with insight and vision and the active involvement of faculty and administrators.

Faculty and chairpersons participated in meetings and retreats to identify college and section strengths and weaknesses, specific goals, and strategies for attaining these goals. Three key ideas that came out of these discussions were the interrelated needs to place a stronger emphasis upon research, to become more thoroughly integrated into the rest of the campus, and to increase external funding.

The Section of Oral Biology was targeted for development as a research-oriented program. This section received three new positions from the Provost and eight positions were reallocated to Oral Biology from within the college. Across the college, teaching loads have been adjusted to facilitate faculty involvement in research. There has been a strong effort to ensure that clinical and research faculty complement each other's efforts.

What have been the results of these changes? The college now has 33 faculty collaborating with researchers in 55 departments across the campus. That $70,000 in external funding in 1981 has grown to around $2.5 million a year, twice the national median for dental schools of one and a quarter million dollars per year. And equally dramatic, student performance has improved by all national measures.

The College of Home Economics is already in the midst of a similar activity of overall assessment. College administration and departmental administrators and faculty have taken a hard look at current and projected resources. They have begun the process of deciding which departments would show the greatest qualitative growth if infused with additional resources. As these departments further enhance their reputations, they will attract growing numbers of top faculty and students, and increased external funding. Their reputation for excellence will strengthen both the college and the University as a whole.

Each college must determine the planning process that will be most effective in building qualitative growth in its academic programs. This is a difficult, but ultimately rewarding challenge. As we all know, our current and projected resources place very real limitations on quantitative expansion. Fortunately, the quality of the faculty and researchers on this campus gives Ohio State a strong base as we plan for the University's future. Wise decision making today will ensure that tomorrow Ohio State will be on the cutting edge of teaching and research.
A Framework for Strategic Planning
at The Ohio State University

Office of Academic Affairs
The Ohio State University
October 1987
1. Introduction

The long-range goals that we are now setting for ourselves are these: to be the finest university in the Big Ten, and to be one of the top five public universities in the United States. The purpose of the current planning process is to set out a strategy for attaining these goals by the turn of the century.

The intended immediate product of the planning process is a comprehensive plan for each of the academic units of the University, and for those units that serve the academic units. Once arrived at, such plans will be revised and reevaluated on a yearly basis, and will guide the allocation and reallocation of resources that constitute the budgetary process. It is expected that a similar global planning process will take place after about five years.

Conventionally, the definition of strategic planning takes the following form: the process of deciding on objectives of the organization, on changes in these objectives, on the resources used to attain these objectives, and on the policies that are to govern the acquisition, use, and disposition of these resources. The call for University-wide strategic planning does not mean that the University will engage in central planning of academic programs. Rather, the purpose of a University-wide strategic planning process is to engage all relevant units in the planning process, so that future directions may be mapped out intelligently, so that resources may be allocated to meet anticipated needs, and so that unanticipated opportunities may be recognized and taken advantage of. What constitutes a relevant unit from the point of view of planning will be discussed later.

Some general principles that are intended to guide the planning process are discussed in section 2. Section 3 takes note of the resources that should be assumed. Section 4 provides some suggestions on how to implement a planning process within an academic unit. Section 5 describes interim planning reports requested of Deans1 prior to the submission of full plans. Section 6 provides some guidelines for plans.

As discussed here, the term academic planning refers directly to instruction and research, the business of the academic programs. Non-academic planning must be taken into account in regard to the implementation of academic plans, because of the interrelationships between the academic and many of the non-academic functions of the University.

2. General principles

At the very foundation of our thinking about academic planning are these four ideas.

The first is that the University is essentially an academic institution. The main business of the University is instruction and research, and service to the extent that it flows naturally from the instructional and research missions. All activities of the University, be they overtly academic or non-academic, must be examined in light of what effects they may have on the quality of the academic programs.

The second idea is that the overriding goal of the University is to build quality throughout. This University has the opportunity to be truly outstanding across a wide range of disciplines and programs, through the wise disposition of its resources. The planning process is intended to help us meet that goal.

The third idea is that while considerable, resources are finite. Therefore it is necessary to set

---

1For simplicity, in this document the term Dean is used to refer to all those who submit annual reports directly to the Office of Academic Affairs.
priorities, through careful planning. The planning process will interact intimately with the budgeting process; budgetary proposals should implement agreed upon long-term plans.

The fourth is that in order to set priorities well, it is necessary to have good data, in the form of program review and evaluation. Program evaluation is essential to a determination of the strengths and weaknesses of a program. It provides indispensable input to the determination of what changes and additions need to be made to a program. It provides a way of determining what constitutes quality, and when quality has been achieved. A rigorous and demanding review process makes the goal of excellence a realistic one for every program.

These central ideas lead us to several relevant points:

*Resources should be allocated in the context of a plan.* The annual budgeting process should be a working out in detail of the broader objectives that emerge from long-term planning.

*Plans provide the framework in which the value of opportunities can be developed.* It is very important that plans be flexible and open-ended. Plans should allow for reordering of priorities when unforeseen opportunities arise. They should allow for entirely new undertakings when new possibilities emerge. They should provide alternatives where appropriate. It is in the nature of the academic enterprise that things continue to change, sometimes quickly. We should not lock ourselves into plans that are no longer productive.

*Every current decision must be examined carefully in the context of long-range objectives.* We must begin now to evaluate every hiring decision, every tenure decision, every decision bearing on programmatic emphasis or deemphasis, every decision to allocate space, with the following question in mind: What decision will take us furthest towards our goal of being the best?

*Non-instructional areas must be evaluated and planned as part of academic planning.* It is not the case, of course, that every activity of the University is intimately associated with the academic programs. But there are many relationships, and they are significant. The creation, acquisition and allocation of space, for example, while not strictly academic functions, have enormous implications for the feasibility of implementing particular academic programs of high quality. Similar observations hold for the libraries, computing services, student services, financial support of graduate students, etc.

On a more concrete level, we stress that the planning process is a cooperative one between the programs, the Deans, and Academic Affairs. The more carefully we think through the basis on which we allocate resources, the more impact will those resources have. The planning process is intended in part to bring forward those areas of the University that are already excellent or that have a very real opportunity to achieve genuine excellence in the coming five- to ten-year period. The ordering of priorities is not set in advance by the Provost in the absence of review, evaluation, and serious planning by academic units with opportunities for greater distinction.

The close involvement of the Deans in setting priorities is crucial. The process of resource allocation must be a competitive one, with the most exciting opportunities and the most pressing needs given the highest priority in the University overall. But middle-level priorities will also receive
particular attention, in that they will be provided with seed resources. Seeding of relatively many such middle-level priority items, and subsequent evaluation of their relative success, will help to determine which initiatives will move to the top further along in the planning process.

3. Resources

In many cases the implementation of plans will require new resources, in the form of personnel, space, and equipment. It is realistic to assume that the resources available to the University from the state will not grow significantly in the foreseeable future. It is expected, for example, that state funding will constitute a constant or slightly declining percentage of the resources available to the university. Therefore the resources needed for the implementation of plans must be generated through internal reallocation.

In order to add new programs, and to add new strength to existing programs, it will be necessary to identify resources that now have marginal or peripheral effect, and redirect them to areas where they will have greater impact. Such redirection may occur within a program, a department, a college, or at the level of the University, depending on the circumstances. The decision as to what resources to redirect and where to redirect must be based on careful review and evaluation, and priorities must be set. It will not be possible for us to do everything that we are now doing, and at the same time move forward into new efforts.

In formulating plans, Deans should not be bound by any specific budgetary constraints. Significantly, while the total amount of available resources is limited, such limitations should not be imposed on the units involved in the planning. The present objective is to determine what we would do and what the priorities are. How much will be possible can only be determined subsequently. It should be understood, of course, that only the highest priorities can be addressed at any one time.

As noted earlier, the annual budgeting process will be tied closely to the planning process. In practical terms, what this means is that permanent resources for a particular purpose can be made available only if that purpose is demonstrated to be consistent not only with priorities, but with quality (excellence) as determined by program evaluation, and with planning as set out by a careful strategic planning process.

The demand for instruction created by short-term enrollment shifts will be met by temporary funding, not permanent funding. Where enrollments cannot be met without compromising on academic quality, it may be necessary to engage in enrollment management planning.

4. Planning mechanisms

The goal of the planning process is the development of a comprehensive academic plan for the University. As part of the University-wide planning process, Deans will be asked to design planning mechanisms appropriate to their Colleges. In this section we describe as an example several planning mechanisms that Deans may wish to modify as they see fit.

Deans will be asked to provide to the Provost descriptions of their planning mechanisms by January 1, 1988.

4.1. Planning units

From the point of view of the Office of Academic Affairs, the planning units are the colleges. It is the Deans who submit annual budgets to the Provost, and these budgets must be tied to plans developed for the colleges. Similarly, the Provost allocates resources to the Deans, who then
Strategic Planning

determine their distribution. Individual Deans must therefore decide what approach to planning would be best suited to their individual colleges.

One key question to be answered before developing a planning mechanism is what are the relevant planning units within the college. In some colleges, there may be no internal structure sufficiently well-developed to justify decentralizing the planning further. In others, the departmental structure may be strong in general, but there may be broad interdisciplinary concerns that transcend the departmental structure. In still others, the Dean may wish to rely closely on the departmental structure.

4.2. Example - Departmental planning

Each departmental unit reporting to the Dean is asked to prepare a plan according to a format specified by the Dean. The department chairperson works out a planning structure for the department in consultation with the Dean. There should be provisions for review and evaluation of plans within the college. One suggestion is that the entire set of plans be reviewed and evaluated by two advisory committees, one composed of senior faculty, and the other of chairpersons. A faculty Planning Advisory Committee could meet with a representative of each program, and subsequently forward recommendations to the Dean.

4.3. Example - College planning

The Dean forms a Planning Advisory Committee that formulates a comprehensive plan for the college, in consultation with departments. The draft plan is circulated to all faculty for comments, and hearings are held. The rationale for such an approach is that in a given college, there may be many intellectual and resource issues that cut across departmental lines. New developments within a number of fields might be most comprehensively addressed at the level of the college.

5. Reports from Deans

On the basis of input from individual programs, from advisory committees and from other sources, the Dean should prepare an overall plan for the College. The overall plan should summarize the development plans for the individual units where relevant, and make clear the general resource implications. It is not necessary in this summary plan to provide a detailed discussion of what went into arriving at the particular decisions, but particularly salient opportunities, problems, trends, etc. should be taken note of. We would expect a final plan to contain about two to four pages for each distinct program.

Since we are at the very beginning of the strategic planning process, several progress reports are requested.

5.1. Input to the enrollment planning model

The initiation of a long-term strategic academic plan will require the better part of a year, beginning in 1988. There is, however, a short term planning issue that can be addressed immediately: enrollments. During Fall 1987 the Provost's Office will solicit information from all academic units concerning the extent to which they already carry out enrollment planning and the parameters according to which enrollments can be predicted. As far as the latter is concerned, there are several types of information that may be relevant: (i) identification of service obligations with respect to a known student population, (ii) discipline-wide data on effective student/faculty ratios, students/section ratios, students/laboratory ratios, etc., (iii) known correlations between prerequisites and enrollments (e.g. the effect of math
Strategic Planning

prerequisites on enrollments in elective courses), (iv) comparisons with other institutions. Such information will be incorporated into an independent enrollment planning study.

5.2. Resource inventory

Also during Fall 1987 the Provost's office will identify and verify available data that the academic units will need to take into account during the planning process. These items will include data on enrollment trends, equipment, space usage, and financial commitments. The data will be provided to the units to assist their planning efforts.

5.3. First progress report,
January 1, 1988

This report should contain the following:

(1) A summary of immediate identifiable needs, projected over five years.

There are certain high priority needs of programs that do not require a complex planning process in order to be identified. These needs should be addressed as soon as possible. The cost of meeting these needs over the five year period should be identified.

(2) Identification of striking opportunities, for example in the form of individual recruiting objectives.

(3) Summary of significant enrollment trends within the College, and indication of anticipated impact on its academic programs.

(4) Outline of the planning mechanisms adopted for the College.

(5) Summary of ongoing planning efforts.

5.4. Spring 1988 budget process

The curriculum review will have been enacted during the Winter quarter of 1988 for piloting in 1988-1989. Full implementation will occur in 1989-1990. Planning for enrollments, identification of future curricular needs, identification of capital equipment necessary for present new courses, etc. should begin in Spring 1988, so that we are prepared for the Spring 1989 budget process.

5.5. Second progress report,
July 1, 1988

This report should consist of a brief memo updating the status of the planning process within the College.

5.6. Strategic Plan, December 1, 1988

This should be the annual version of the Strategic Plan for the College. It will be referred to during the budgeting process for the coming academic year that takes place in the Winter and Spring quarters. Subsequent revisions of strategic plans are due in the Provost's office every year on December 1.

Planning hearings will be scheduled each January to review with Deans their plans and priorities. These planning hearings will be structured like the budget hearings, with the participation of the same individuals. The focus of these hearings will be the broad, long-term planning issues facing the academic units and the University.

By instituting planning hearings, it will be possible to remove future long-term plans from the Annual Reports. These
Annual Reports will refer to the strategic plans, and lay out the details of how those plans will be implemented.

The structure and scope of a typical strategic plan is set out in the next section.

6. The Strategic Plan

Here is a set of questions and topics that should be addressed in a strategic plan, if relevant. These are organized in a way that suggests a format in which strategic planning documents may be presented. Deans should feel free to provide the information in a way that is most convenient for them, along these general lines. A summary outline is given in Appendix A.

The Strategic Plan should be a concise document. It should focus on essentials. A plan from a college ought not to exceed twenty-five pages, single-spaced.

1. Overview (mission)

What is it that the program expects to do and is expected to do, as an academic unit of the University? In certain cases the answer is determined largely by the consensus of the academic field nationally, in other areas the answer is determined in part as well by the demands for public service, for professional education, and by student (consumer) expectations.

This section should be addressed to the intelligent and critical non-specialist. It should inform the reader in concise and non-technical terms what the unit's mission is.

A. Thematic definition of the program

What is the subject matter that the program is concerned with? Is the field characterized by a special methodology that distinguishes it from others working on similar problems? What are the central areas of focus in the field, and what are peripheral areas?

B. Undergraduate education

What is the program's mission in regard to undergraduate education? What role does the program play in general education? Does the program have a service obligation to supply certain courses for majors in other programs? What does the typical major end up doing after graduation?

C. Graduate education

What is the program's mission in regard to graduate education (Master's and Doctoral level)? Does the program make a service contribution at the graduate level to other programs? What are the employment options for graduates?

D. Research

What are the major research areas covered by the program?

E. Public service

What are the public service expectations of the program?

II. State of the field

A. Evaluation of the best of the field

What are the five or so best programs of this type in the country? Describe them briefly - how big are they, what is their coverage of the field, why are they so highly ranked?
B. Identification of future trends

Where do you see the field going? External reviews that have already occurred or that are ongoing as part of the evaluation process are often useful sources of forecasting perspectives.

1. Research

What are the areas that have peaked? What are the areas of traditional importance that are no longer central? What are the areas that are just now beginning to attract attention that we need to keep track of? What interdisciplinary developments are beginning to emerge that will require the efforts of a number of programs? Where will extramural funding be focussed in the next five years?

Please give some rationale for your statements. It is useful here to take note of pending or published studies, surveys, and reports from task forces, panels, foundations, national organizations, etc.

2. Enrollments

What have the trends been nationally? Where do you see them going? Why? Please cite published studies where possible. How dependent is the graduate enrollment on external funding (e.g., grants, fellowships, etc.)?

IV. Plan for program development

Given the above analysis, what steps would you take to move the program forward? Here it may be necessary to identify groups of initiatives, ranked according to priority and feasibility. (For example, we might be able to move up rapidly if we make three appointments in area X, but only if Dr. J is available. Otherwise it would be more sensible to make one appointment in area X and two in area Y.) You may find it useful to review the plans of units with members of the external committee involved in the program evaluation process for the program, if the evaluation occurred within the last two or three years.

Plans for program development are relevant within departments, within colleges, and across the University. Colleges should examine their current allocation of resources, and plan for reallocation between units in order to maximize the effectiveness of resources, whether or not new program funds are available. College-level planning is essential for the development of new interdisciplinary programs, for the optimal allocation of resources to departments and for the best use of resources when a number of programs within the college have similar faculty, equipment or staffing needs.

III. Strengths and weaknesses of the program

Please provide an evaluation of the program’s strengths and weaknesses. Reference to internal and external reviews is essential where they are available. Reference to studies by national panels, etc. is very relevant; strengths and weaknesses are, in part, defined against the backdrop of how a particular field views its mission.

A. New programs

What new programs would you plan now to develop over the next five years? To what extent will existing faculty be sufficient, to what extent will replacements of retiring faculty be sufficient, and to what extent will new resources be required? What interdisciplinary efforts would you want to be involved in that would involve units not under your jurisdiction?
B. Merging or phasing out of programs

What existing programs would you now hypothesize should be merged or phased out over time? It is important to stress that the formulation of such a hypothesis is not an irrevocable decision; it may simply involve for the near-term the decision to delay putting new resources into it, to delay replacing individuals who resign or retire, etc. In such a case, what would the timetable for review be, and when would an irrevocable decision have to be made? What would be the consequences of such a decision?

In other cases, the decision to merge or phase a program out may be more concrete. What is the basis for this decision? What is the fate of tenured faculty who are still associated with the program? If there are such people, consideration must be given to helping them to be as productive as possible, as discussed below in section D, Faculty Development.

C. Faculty recruitment

What categories of faculty expertise would you seek, in priority order? Why? If there is a realistic immediate target of opportunity, who is it? How would new faculty fit into the existing structure?

D. Faculty development

What opportunities are there for making better use of existing faculty resources? Are there faculty members whose productivity can be improved by refocussing their efforts? Here there are many possibilities that may or should be entertained, including: (i) assigning primarily teaching and service functions to faculty with a concern for being productive but who are not capable of quality research; (ii) giving faculty the opportunity for reeducation and refocussing for teaching and research, either through professional leave, research leave, released time, or in-house faculty seminars (perhaps led by distinguished visiting faculty).

E. Affirmative action

Please refer to the assessment of the current state of the unit regarding the number of women and minorities on the faculty, in the graduate student ranks and in the undergraduate population, compared to the available pools. In this light, what concrete steps will you take to address imbalances, over the long-run? If an affirmative action plan has already been developed, it is sufficient to refer to that plan.

F. Research development

What are the prioritized plans for developing new research emphases? How do these plans fit into (i) current activities in the program, (ii) efforts at the University in other programs? What do you expect to deemphasize or phase out?

V. Impact on resources

Indicate the expected resource demands that would be tied to carrying out your plan, and the resources that are currently available or will be available in the foreseeable future. (Indicate the timetable.) Relevant categories include:

A. Personnel

What auxiliary personnel will be required if a particular effort that is now in the planning stage is successful? This category includes research personnel, technicians, secretarial staff, etc.
Strategic Planning

B. Equipment and operations

In some areas it is possible to predict with some accuracy the cost of setting up new faculty and new areas of research. Such costs must be explicitly identified as part of the planning process. They include not only equipment costs, but other operational costs, such as supplies, software, etc.

C. Space

What specific space requirements will result if a particular effort now in the planning stage is successful? To what extent is the program able to provide the needed space from current resources?

VI. Sources

What resources do you plan to reallocate in order to make these long-plans possible?

Specifically, what resources would be reallocated from areas or faculty positions that you have identified as marginal to the mission of the unit, no longer central to the field, or of less than acceptable quality? What is the extent of the resources that would be freed up, and what is the timetable for doing so?

VII. Background

Please indicate how the plan was developed, who wrote it, etc. Indicate who was consulted outside of the program and outside of the University, if relevant.

Comments or questions regarding this document should be addressed to Dr. Peter W. Culicover, Associate Provost for Planning, Office of Academic Affairs, 203 Bricker Hall, 190 North Oval Mall.
Plan Format

I. Overview
   A. Thematic definition of the program
   B. Undergraduate education
   C. Graduate education
   D. Research
   E. Public service

II. State of the field
   A. Evaluation of the best of the field
   B. Identification of future trends
      1. Research
      2. Enrollments

III. Strengths and weaknesses of the program
   A. Faculty quality
   B. Curricular comprehensiveness
   C. Scope of research programs
   D. Public service
   E. Comparison with the best
   F. Affirmative action

IV. Plan for program development
   A. New programs
   B. Merging or phasing out of programs
   C. Faculty recruitment
   D. Faculty development
   E. Affirmative action
   F. Research development

V. Impact on resources
   A. Personnel
   B. Equipment and operations
   C. Space

VI. Sources

VII. Background
**Strategic Planning**

**Timetable**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>1988</td>
<td>First progress report due from Deans</td>
</tr>
<tr>
<td></td>
<td>Budgets/Annual reports due</td>
</tr>
<tr>
<td></td>
<td>Budget hearings</td>
</tr>
<tr>
<td></td>
<td>Programs initiate planning process</td>
</tr>
<tr>
<td></td>
<td>Second progress report due from Deans</td>
</tr>
<tr>
<td></td>
<td>Programs complete plans</td>
</tr>
<tr>
<td></td>
<td>Final plans due from Deans</td>
</tr>
<tr>
<td>1989</td>
<td>Planning hearings</td>
</tr>
<tr>
<td></td>
<td>Budgets/Annual reports due</td>
</tr>
<tr>
<td></td>
<td>Budget hearings</td>
</tr>
<tr>
<td></td>
<td>Programs review and revise plans</td>
</tr>
<tr>
<td></td>
<td>Revised plans due from Deans</td>
</tr>
<tr>
<td>1990</td>
<td>Planning hearings</td>
</tr>
<tr>
<td></td>
<td>Budgets/Annual reports due</td>
</tr>
<tr>
<td></td>
<td>Budget hearings</td>
</tr>
<tr>
<td></td>
<td>Programs review and revise plans</td>
</tr>
<tr>
<td></td>
<td>Revised plans due from Deans</td>
</tr>
</tbody>
</table>

etc.

532
APPENDIX VIII

CAPITAL BUDGET REQUEST

(See page 379)
FISCAL AFFAIRS COMMITTEE

Item for Discussion: Capital Budget Request

BACKGROUND

The University is at the initial stages of updating the capital plan for Ohio State as a basis for submitting capital budget needs for six fiscal years 1991-96, to the Board of Regents' in July 1989. This session will review the overall capital needs and describe the schedule and process to be followed in updating the six year capital plan over the next seven months. Provided as background is a summary of the current capital plan as presented to you in August of 1987, with the projects designated which have been funded by the State.
Capital Plan
1989-1994

Prepared By
The Office of Campus Planning & Space Utilization
August 1987
Principles for Capital Projects

June 1987
PRINCIPLES FOR CAPITAL PROJECTS

June 1987

There are five basic principles guiding the identification of capital needs that must be addressed in the next three biennia. To a large extent we have weighed these principles in the order in which they are listed. However, the interplay among the principles has resulted in certain projects receiving higher priority.

Academic Excellence and Start-up Facilities

- The University has new opportunities for excellence. Distinguished faculty are being recruited with very particular space needs that must be met if the faculty are to be hired.
- Some academic programs are limited in their development by inadequate and inappropriate space. Both the quality of the work done in these programs and the ability to hire distinguished faculty are decreased by current physical facilities.
- Some academic disciplines have taken on new directions in scholarship and research. Space needs for these disciplines have changed, and new types of facilities need to be created.

Aging Physical Facilities

- Many buildings are aging and require major renovation. The University must give high priority to general maintenance in the offices, classrooms, and laboratories of these buildings. In particular, many classrooms have inadequate ventilation, heating, and seating.
- We have some space that is not well used because of its present configuration. This space, which includes storage areas and poorly shaped classrooms, could be converted into usable space at modest cost. One goal of this type of renovation is to create additional student study space across campus.
Requirements for Use of New Technology

- Classrooms need to be readied to take advantage of new instructional technology, including both computer support and video projection. Instructional laboratories require updating.

- Across campus many classrooms, laboratories, and offices need to be wired for future use of computing equipment.

Library and Other Collections

- The University has great resources in its libraries and other collections. To a large extent, these collections are crowded and in other ways inadequately housed.

Matching for Gift Monies

- Increasingly, the University has the opportunity to benefit from large gifts for new buildings and for additions to existing buildings when it can add matching money to the gifts.
The Ohio State University
Capital Plan
All Funding Sources
1989–1994
## UTILITIES & RENOVATIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>1987 ESTIMATES</th>
<th>1988-90 BIENNIAL FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL O &amp; R (COLUMBUS CAMPUS)</td>
<td>$18,000.0</td>
<td>$12,000.0</td>
</tr>
<tr>
<td>SMALL OU PROJECTS</td>
<td>$9,000.0</td>
<td>$8,000.0</td>
</tr>
<tr>
<td>PCB TRANS REMOVAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB TRANS REMOVAL</td>
<td>$5,000.0</td>
<td></td>
</tr>
<tr>
<td>HOSPITALS OAR</td>
<td>$11,500.0</td>
<td></td>
</tr>
<tr>
<td>ATHLETIC DEPT OAR</td>
<td>$3,000.0</td>
<td></td>
</tr>
<tr>
<td>RESIDENCE &amp; DINING OAR</td>
<td>$8,408.0</td>
<td></td>
</tr>
<tr>
<td>UNION BLOGS OAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REGIONAL CAMPUSES O &amp; R</td>
<td>$3,254.0</td>
<td></td>
</tr>
<tr>
<td>ATI O &amp; R</td>
<td>$1,000.0</td>
<td>$1,000.0</td>
</tr>
<tr>
<td>OAREC O &amp; R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASBESTOS</td>
<td>$2,000.0</td>
<td>$2,000.0</td>
</tr>
<tr>
<td>ASBESTOS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEERHALL RENOVATION - PHASE II</td>
<td>$2,575.0</td>
<td>$2,755.3</td>
</tr>
<tr>
<td>HAMILTON HALL RENOVATION - PHASE II</td>
<td>$8,300.0</td>
<td>$7,381.0</td>
</tr>
<tr>
<td>DENTAL INSTRUCTIONAL LAB RENOVITION</td>
<td>$3,000.0</td>
<td>$3,000.0</td>
</tr>
<tr>
<td>DENTAL INSTRUCTIONAL LAB RENOVITION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIBRARY BOOK WAREHOUSE</td>
<td>$3,100.0</td>
<td>$3,317.0</td>
</tr>
<tr>
<td>EWENS LAB ADDITION</td>
<td>$4,100.0</td>
<td>$4,387.0</td>
</tr>
<tr>
<td>CLASSROOM BLDG RENOVATION PHASE II</td>
<td>$850.0</td>
<td></td>
</tr>
<tr>
<td>BIO SCIENCES/PARKS HALL ADDITION</td>
<td>$20,325.0</td>
<td>$21,747.8</td>
</tr>
<tr>
<td>GREENHOUSE PROJECTS</td>
<td>$5,500.0</td>
<td></td>
</tr>
<tr>
<td>EQUIPE CENTER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEALTH CTR ACCESS RD PHASE I &amp; II</td>
<td>$9,300.0</td>
<td></td>
</tr>
<tr>
<td>FROZEN FOODS FACILITY REPLACEMENT</td>
<td>$1,500.0</td>
<td></td>
</tr>
<tr>
<td>DEERHALL LAB ADDITION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MENDENHALL LAB RENOVATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MENDENHALL LAB RENOVATION</td>
<td>$200.0</td>
<td></td>
</tr>
<tr>
<td>LIGHTWIRE HALL REMODELING</td>
<td>$4,500.0</td>
<td></td>
</tr>
<tr>
<td>NEW MAINTENANCE BLDG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOOKSTORE REPLACEMENT</td>
<td>$9,000.0</td>
<td></td>
</tr>
<tr>
<td>SMITH LAB RENOVATION PHASE I</td>
<td>$2,250.0</td>
<td></td>
</tr>
<tr>
<td>SISSEW HALL RENOVATION</td>
<td>$2,020.0</td>
<td></td>
</tr>
<tr>
<td>LAW BUILDING ADDITION AND RENOVITION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAW BUILDING ADDITION AND RENOVITION</td>
<td>$7,500.0</td>
<td>$1,500.0</td>
</tr>
<tr>
<td>SUB TOTALS</td>
<td>$202,782.0</td>
<td>$57,088.0</td>
</tr>
</tbody>
</table>

## ADDITIONAL PROJECTS FUNDED

<table>
<thead>
<tr>
<th>Description</th>
<th>1987 ESTIMATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORTHSTAR BLDG ADDITION</td>
<td>$250.0</td>
</tr>
<tr>
<td>SEAGRAMS SCHOOL PROJECTS - SOUTHBASS AND GIBRALTAR ISLANDS</td>
<td>$1,000.0</td>
</tr>
<tr>
<td>CRANSTON BLDG PURCHASE AND RENOVATIONS</td>
<td>$3,000.0</td>
</tr>
<tr>
<td>AMERIFLORA TECHNOLOGY AND HORTICULTURE INFORMATION CENTER</td>
<td>$4,500.0</td>
</tr>
<tr>
<td>AMERIFLORA BIOCONTAINMENT FACILITY</td>
<td>$2,225.0</td>
</tr>
</tbody>
</table>

## TOTALS

<table>
<thead>
<tr>
<th>Description</th>
<th>1987 ESTIMATES</th>
<th>1988-90 BIENNIAL FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTALS</td>
<td>$202,782.0</td>
<td>$57,088.0</td>
</tr>
</tbody>
</table>

**Note:** Asbestos Abatement, Data Processing Equipment and Instructional Equipment Funding Provided to Board of Regents

NS = NON STATE FUNDING SOURCE
THE OHIO STATE UNIVERSITY
CAPITAL PLAN
ALL FUNDING SOURCES
1991-92 BIENNIAL

JUNE 1987 ESTIMATES
(1000.0)
1991-92

<table>
<thead>
<tr>
<th>UTILITIES &amp; RENOVATIONS</th>
<th>1991-92</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL U &amp; R (COLUMBUS CAMPUS)</td>
<td>$18,000.0</td>
</tr>
<tr>
<td>NS SMALL U&amp;R PROJECTS</td>
<td>9,000.0</td>
</tr>
<tr>
<td>NS HOSPITALS U&amp;R</td>
<td>12,000.0</td>
</tr>
<tr>
<td>NS ATHLETIC DEPT U&amp;R</td>
<td>2,000.0</td>
</tr>
<tr>
<td>NS RESIDENCE &amp; DINING U&amp;R</td>
<td>970.0</td>
</tr>
<tr>
<td>NS UNION BLOWS U&amp;R</td>
<td>2,970.0</td>
</tr>
<tr>
<td>NS REGIONAL CAMPUSES U &amp; R</td>
<td>750.0</td>
</tr>
<tr>
<td>NS ATI U &amp; R</td>
<td>250.0</td>
</tr>
<tr>
<td>NS QAROC U &amp; R</td>
<td>300.0</td>
</tr>
<tr>
<td>NS ASBESTOS</td>
<td>2,800.0</td>
</tr>
<tr>
<td>NS ASBESTOS</td>
<td>1,000.0</td>
</tr>
<tr>
<td>B &amp; 2 BLDG ADDITION &amp; RENOVATION-PH I</td>
<td>5,425.0</td>
</tr>
<tr>
<td>NS MCPHERSON LAB RENOVATION - PHASE I</td>
<td>7,175.0</td>
</tr>
<tr>
<td>SMITH LAB RENOVATION PHASE II</td>
<td>3,500.0</td>
</tr>
<tr>
<td>NS CALDOWELL LAB REMODELING (WELD ENG)</td>
<td>3,396.0</td>
</tr>
<tr>
<td>NS NEW LIBRARY BUILDING - PHASE</td>
<td>36,180.0</td>
</tr>
<tr>
<td>NS MACK HALL RENOVATION</td>
<td>5,000.0</td>
</tr>
<tr>
<td>NS BYRD CENTER RENOVATION</td>
<td>1,080.0</td>
</tr>
<tr>
<td>NS SCHOOL OF ARCHITECTURE BUILDING REPLACEMENT</td>
<td>22,800.0</td>
</tr>
<tr>
<td>NS NEIL 17TH REPLACEMENT</td>
<td>7,500.0</td>
</tr>
<tr>
<td>NS HUGHES HALL RENOVATION</td>
<td>4,500.0</td>
</tr>
<tr>
<td>NS VIVIAN HALL RENOVATION</td>
<td>4,000.0</td>
</tr>
<tr>
<td>NS RESOURCE CGNS &amp; RECOV LAB (ENVIR HLTH)</td>
<td>1,336.0</td>
</tr>
<tr>
<td>NS RESEARCH CENTER RENOVATION</td>
<td>5,000.0</td>
</tr>
<tr>
<td>NS MARION CAMPUS MAINTENANCE BUILDING</td>
<td>525.0</td>
</tr>
<tr>
<td>NS AGRICULTURE FACILITIES PLANNING</td>
<td>500.0</td>
</tr>
<tr>
<td>NS HEALTH CTR ACCESS RD PHASE III</td>
<td>3,000.0</td>
</tr>
<tr>
<td>NS RESEARCH PARK DEVELOPMENT (INFRASTRUCTURE)</td>
<td>3,000.0</td>
</tr>
<tr>
<td>NS HORTICULTURE GREENHOUSES EXPANSION</td>
<td>2,500.0</td>
</tr>
<tr>
<td>NS ANIMAL FACILTY UPGRADING (DENTISTRY)</td>
<td>1,069.0</td>
</tr>
<tr>
<td>NS LORD HALL REPLACEMENT</td>
<td>7,508.0</td>
</tr>
<tr>
<td>NS HORSE BREEDING FACILITY (ATI)</td>
<td>600.0</td>
</tr>
</tbody>
</table>

TOTAL

<table>
<thead>
<tr>
<th>NS</th>
<th>NON STATE FUNDING SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL9192</td>
<td>175,445.0</td>
</tr>
</tbody>
</table>
### Utilities & Renovations

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General U &amp; R (Columbus Campus)</td>
<td>$10,000.0</td>
</tr>
<tr>
<td>Small U &amp; R Projects</td>
<td>9,000.0</td>
</tr>
<tr>
<td>Hospitals U &amp; R</td>
<td>12,500.0</td>
</tr>
<tr>
<td>Athletic Dept U &amp; R</td>
<td>2,099.0</td>
</tr>
<tr>
<td>Union Bldgs U &amp; R</td>
<td>4,140.0</td>
</tr>
<tr>
<td>Regional Campuses U &amp; R</td>
<td>750.0</td>
</tr>
<tr>
<td>ATI U &amp; R</td>
<td>250.0</td>
</tr>
<tr>
<td>OARDC U &amp; R</td>
<td>500.0</td>
</tr>
<tr>
<td>Asbestos</td>
<td>1,000.0</td>
</tr>
<tr>
<td>B &amp; 2 Renovation - Phase II</td>
<td>5,165.0</td>
</tr>
<tr>
<td>McPherson Lab Renovation - Phase II</td>
<td>4,050.0</td>
</tr>
<tr>
<td>Smith Lab Renovation - Phase III</td>
<td>2,800.0</td>
</tr>
<tr>
<td>Library Bldg - Phase II</td>
<td>8,900.0</td>
</tr>
<tr>
<td>Student Health Equip Upgrade</td>
<td>265.0</td>
</tr>
<tr>
<td>Oxley Hall Renovations</td>
<td>2,000.0</td>
</tr>
<tr>
<td>Medical Logistical Services Addition Phase II</td>
<td>9,000.0</td>
</tr>
<tr>
<td>Psychiatric Hospital Replacement</td>
<td>16,000.0</td>
</tr>
<tr>
<td>Oon Scott Field Improvements</td>
<td>2,200.0</td>
</tr>
<tr>
<td>Sports Park Site Development</td>
<td>2,000.0</td>
</tr>
<tr>
<td>Sports Pavilion</td>
<td>13,300.0</td>
</tr>
<tr>
<td>Poultry Research Facility Replacement</td>
<td>1,700.0</td>
</tr>
<tr>
<td>Kottman Hall Greenhouse Expansion</td>
<td>875.0</td>
</tr>
<tr>
<td>Poultry Research Facility (OARDC)</td>
<td>480.0</td>
</tr>
<tr>
<td>Marion Campus Libr Expan/MTC Classrms</td>
<td>3,450.0</td>
</tr>
<tr>
<td>Animal Science Facility</td>
<td>12,500.0</td>
</tr>
<tr>
<td>Maintenance/Storage Facility (Newark)</td>
<td>300.0</td>
</tr>
<tr>
<td>Research Park Renovation/New Construction</td>
<td>10,000.0</td>
</tr>
<tr>
<td>Nuclear Reactor Lab Modifications</td>
<td>250.0</td>
</tr>
<tr>
<td>Newton Hall Addition</td>
<td>4,000.0</td>
</tr>
<tr>
<td>Health Science Library Shelving Renovation</td>
<td>1,200.0</td>
</tr>
<tr>
<td>Grain Storage (OARDC)</td>
<td>318.0</td>
</tr>
<tr>
<td>Outdoor Aquatic Center</td>
<td>1,150.0</td>
</tr>
<tr>
<td>Property Acquisitions (South, Kinneal, Kenny)</td>
<td>8,700.0</td>
</tr>
<tr>
<td>Entrance Road (Newark)</td>
<td>1,700.0</td>
</tr>
<tr>
<td>Finley Farm Improvements</td>
<td>2,000.0</td>
</tr>
<tr>
<td>Weightlifting Center</td>
<td>125.0</td>
</tr>
<tr>
<td>Academic Bldg Annex (Mansfield)</td>
<td>1,800.0</td>
</tr>
<tr>
<td>Masket Hall Renovation</td>
<td>3,800.0</td>
</tr>
<tr>
<td>Ramseyer Hall Renovation</td>
<td>5,250.0</td>
</tr>
<tr>
<td>Sisson Hall Phase II</td>
<td>6,500.0</td>
</tr>
<tr>
<td>Intercollegiate Athletic Center</td>
<td>9,500.0</td>
</tr>
<tr>
<td>Physician Office Bldg</td>
<td>12,000.0</td>
</tr>
<tr>
<td>Ohio Union Addition (4th Floor)</td>
<td>3,600.0</td>
</tr>
<tr>
<td>Storm/Sanitary Sewer Separation</td>
<td>2,500.0</td>
</tr>
</tbody>
</table>

**Total:** 207,638.0

NS = Non State Funding Source

PL9394
The Ohio State University
Capital Plan
State Funding Request
1989–1994
The Ohio State University
Capital Plan
State Funding Request
Fiscal Years 1989-1994

The Ohio State University requests for state appropriated capital improvement funds in the period 1989 through 1994 are based upon careful study of its facility needs. In arriving at these requests, both the program needs as well as the physical condition of the facilities housing these programs have been reviewed.

While a large portion of this plan is for the renovation and renewal of facilities, some new facilities are required to meet current program needs. Demolition of several buildings will offset a large portion of the space added by new construction. The plan also includes projects required to assure the University's prominent roles in the evolving programmatic thrusts of Bio-technology, High-technology, and Computer and Information Sciences.

The total of Ohio State's request for the three biennia is $356.5 million. $136.3 million is requested in the 1989-90 biennium. Highlights and comments on the 1989-90 biennium capital request are as follows:

a. Nearly $12 million is for projects which are the second phase of current projects. These include Hamilton Hall Renovation-Phase II ($8,300,000), Derby Hall-Phase II ($2,575,000) and Classroom Building-Phase II ($850,000).

b. The Library Book Warehouse ($3,100,000) will provide compact storage and preservation space for 1.5 million volumes. This is in line with the recommendations of the Regents' Library Study Committee.

c. The Evans Lab Addition is a small wing to house modern research facilities for the Department of Chemistry. This is the first phase in the rehabilitation of McPherson Lab. The present facilities are deteriorated and it has been difficult to attract and keep outstanding chemistry faculty.

d. The Bioscience/Parks Hall Addition is another project required to house modern teaching and research facilities relating to instrumentation, biohazard and cell culture laboratories. This will permit the joint use (Colleges of Biological Sciences and Pharmacy) of very sophisticated equipment required to support modern instruction in the biosciences programs.

e. The Dreese Lab Addition will provide a central facility for Computer and Information Sciences (CIS). They are now housed in four separate buildings. This project is essentially a replacement for the Welding Engineering Building and the Communications Lab since the occupants will use space vacated by CIS.

f. Funds are requested for the rehabilitation of Mendenhall Lab. This 82 year old building requires major rehabilitation if it is to continue to function as a teaching and research facility for Geology and Mineralogy.

Other projects within the six year plan include several buildings relating to the consolidation of departmental libraries and to improving the
projects listed for the 1989-90 biennium (the Library Book Warehouse, the consolidation of the Pharmacy and Biological Sciences Libraries in the Bioscience/Parks Hall Addition and the Law Building Addition project) the Capital Plan contains the construction of a new Main Library and the renovation of the Health Sciences Library.

The Plan includes several rehabilitation projects which require phasing the construction. Due to the lack of space to temporarily house occupants of the buildings undergoing renovation, the buildings need to be partially occupied during the construction stage. These include Derby Hall, Hamilton Hall, B & Z Building, McPherson Lab and Smith Lab.
<table>
<thead>
<tr>
<th>Priority</th>
<th>Description</th>
<th>June 1987 Estimates (in $1,000s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Utilities &amp; Renovations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General U &amp; R (Columbus Campus)</td>
<td>18,000.0</td>
</tr>
<tr>
<td></td>
<td>PCB Transfer Removal</td>
<td>8,000.0</td>
</tr>
<tr>
<td></td>
<td>Regional Campuses U &amp; R</td>
<td>1,000.0</td>
</tr>
<tr>
<td></td>
<td>ATU U &amp; R</td>
<td>250.0</td>
</tr>
<tr>
<td></td>
<td>Care U &amp; R</td>
<td>500.0</td>
</tr>
<tr>
<td></td>
<td>Asbestos</td>
<td>2,000.0</td>
</tr>
<tr>
<td>2</td>
<td>Derby Hall Renovation - Phase II</td>
<td>2,575.0</td>
</tr>
<tr>
<td>3</td>
<td>Hamilton Hall Renovation - Phase II</td>
<td>8,300.0</td>
</tr>
<tr>
<td>4</td>
<td>Dental Instructional Lab Renovation</td>
<td>3,000.0</td>
</tr>
<tr>
<td>5</td>
<td>Library Book Warehouse</td>
<td>3,100.0</td>
</tr>
<tr>
<td>6</td>
<td>Evans Lab Addition</td>
<td>4,100.0</td>
</tr>
<tr>
<td>7</td>
<td>Classroom Bldg Renovation Phase II</td>
<td>850.0</td>
</tr>
<tr>
<td>8</td>
<td>Bio Sciences/Parks Hall Addition</td>
<td>20,315.0</td>
</tr>
<tr>
<td>9</td>
<td>Greenhouse Modernization</td>
<td>5,500.0</td>
</tr>
<tr>
<td>10</td>
<td>Equine Center</td>
<td>4,000.0</td>
</tr>
<tr>
<td>11</td>
<td>Health Ctr Access Rd Phase I &amp; II</td>
<td>9,900.0</td>
</tr>
<tr>
<td>12</td>
<td>Dreese Lab Addition</td>
<td>15,450.0</td>
</tr>
<tr>
<td>13</td>
<td>Mendehall Lab Renovation</td>
<td>11,100.0</td>
</tr>
<tr>
<td>14</td>
<td>Rightmire Hall Remodeling</td>
<td>4,500.0</td>
</tr>
<tr>
<td>15</td>
<td>Smith Lab Renovation Phase I</td>
<td>3,250.0</td>
</tr>
<tr>
<td>16</td>
<td>Sisson Hall Renovation</td>
<td>2,820.0</td>
</tr>
<tr>
<td>17</td>
<td>Law Bldg Addition and Renovation</td>
<td>7,500.0</td>
</tr>
<tr>
<td></td>
<td><strong>Total New Appropriation Request</strong></td>
<td><strong>136,320.0</strong></td>
</tr>
</tbody>
</table>

CAPPL1
PROPOSED CAPITAL IMPROVEMENT PROJECT DESCRIPTION
(1999-98)

1A. GENERAL UTILITIES & RENOVATIONS -- COLUMBUS
(SEE ATTACHED LIST FOR PROJECTS)

$10,000,000

1B. PCB TRANSFORMER REMOVAL

$8,000,000

REMOVE AND REPLACE 173 PCB TRANSFORMERS TO MEET FEDERAL EPA REQUIREMENTS

1C. UTILITIES & RENOVATION -- REGIONAL CAMPUSES
(SEE ATTACHED LIST FOR PROJECTS)

$1,000,000

1D. UTILITIES & RENOVATION -- ATI
(SEE ATTACHED LIST FOR PROJECTS)

$250,000

1E. UTILITIES & RENOVATION -- QARDC
(SEE ATTACHED LIST FOR PROJECTS)

$500,000

1F. ASBESTOS ABATEMENT

$2,000,000

THIS IS FOR ADDITIONAL FUNDS TO REMOVE AND/OR CONTAIN ASBESTOS MATERIALS BEYOND THOSE ALLOCATED BY THE CBR FORMULA.

2. DERBY HALL RENOVATION - PHASE II

$2,575,000

RENOVATE SELECTED AREAS TO ACCOMMODATE CHANGES IN OCCUPANCY. INSTALL CENTRAL HVAC. UPGRADE ELECTRICAL AND PLUMBING SYSTEMS. REPLACE ROOF AND WINDOWS.

PHASE I WAS FUNDED LAST BIDNUNIUM.

3. HAMILTON HALL RENOVATION - PHASE II

$8,300,000

REPLACEMENT OF OBSOLETE MECHANICAL/UTILITY SYSTEMS IN 68 YEAR OLD BUILDING AND REMODELING OF TEACHING/RESEARCH LABORATORIES. THIS IS A TWO PHASE PROJECT. PHASE I WAS FUNDED LAST BIDNUNIUM.

4. DENTAL INSTRUCTIONAL LAB RENOVATION

$3,000,000

THIS PROJECT INCLUDES ENLARGING TEACHING CLINICS AND REPLACING FIXED EQUIPMENT TO CONFORM TO ACCREDITATION REQUIREMENTS. THIS PROJECT WILL BE SUPPLEMENTED WITH $1.5 MILLION IN LOCAL FUNDS.

5. LIBRARY BOOK WAREHOUSE

$3,188,888

THIS FACILITY WILL PROVIDE COMPACT STORAGE/PRESERVATION SPACE FOR 1.5 MILLION VOLUMES AS WELL AS NEW QUARTERS FOR UNIVERSITY ARCHIVES.

6. EWHS LAB ADDITION

$4,188,888

CONSTRUCTION OF AN ADDITION TO EWHS LAB IN ORDER TO ACCOMMODATE EXISTING CRITICAL CHEMISTRY FUNCTIONS DURING THE REHABILITATION OF MCPHERSON LAB AND TO PROVIDE NECESSARY RESEARCH SPACE.
7. CLASSROOM BUILDING RENOVATION - PHASE II

THIS IS PHASE II OF THE PROJECT TO CONVERT THE CENTRAL SERVICES BUILDING TO CLASSROOMS AND UNIVERSITY BOOKSTORE. $858,000

8. BIOSCIENCE/PARKS HALL ADDITION

THIS PROJECT WILL CONSTRUCT AN ADDITION TO THE BIOSCIENCES BUILDING AND PARKS HALL TO HOUSE INSTRUMENTATION, BIOHAZARD, CELL CULTURE AND OTHER LABS, A VIVARIUM AND A COMBINED LIBRARY FOR PHARMACY AND BIOLOGICAL SCIENCES. $28,325,000

9. GREENHOUSE MODERNIZATION

THIS PROJECT WILL REPLACE THE 48 YEAR OLD GREENHOUSES AND CONSTRUCT A NEW GREENHOUSE, ANIMAL QUARTERS AND GROWTH CHAMBERS FOR BIOTECHNOLOGY. $5,388,000

10. EQUINE CENTER

THIS WILL PROVIDE AN ADDITION TO THE VETERINARY HOSPITAL TO ESTABLISH AN EQUINE TRAUMA UNIT. FUNDING WILL BE SUPPLEMENTED WITH $1.5 MILLION IN PRIVATE FUNDS. $4,000,000

11. HEALTH CENTER ACCESS ROAD - PHASE I AND II

THIS PROJECT WILL CONSTRUCT AN EXIT RAMP FROM NORTHBOUND SR 315 TO CANNON - 9TH AVE. INTERSECTION AND WIDEN CANNON DRIVE FROM KING AVE. TO WOODY HAYES DRIVE. $9,980,000

12. DREES Lab ADDITION

THIS PROJECT WILL CONSTRUCT AN ADDITION TO DREES LAB TO HOUSE COMPUTER AND INFORMATION SYSTEMS AND ELECTRICAL ENGINEERING. THIS WILL BE A REPLACEMENT FACILITY FOR THE WELDING ENGINEERING BUILDING AND THE COMMUNICATIONS LAB. $15,458,000

13. MENDENHALL LAB RENOVATION

THIS PROJECT WILL BE A TOTAL REHABILITATION OF MENDENHALL LAB AND WILL INCLUDE THE ADDITION OF A NEW FLOOR IN THE BUILDING. THIS BUILDING HOUSES GEOLOGY AND MINERALOGY. $11,388,000

14. RIGMTIRE HALL REMODELING

THIS PROJECT WILL COMPLETE THE CONVERSION OF RIGMTIRE HALL INTO THE OSU BIOENGINEERING CENTER. $4,590,000

15. SMITH LAB RENOVATION - PHASE I

THIS PROJECT WILL REMODEL SPACE FOR THE DEPARTMENT OF ASTRONOMY. $3,258,000

16. SISSON HALL RENOVATION

THIS PROJECT WILL UPGRADE UTILITIES AND REMODEL FACILITIES TO MEET ACCREDITATION REQUIREMENTS. $2,828,000

17. LAW BUILDING ADDITION AND RENOVATION

THIS PROJECT WILL BUILD AN ADDITION TO THE LAW BUILDING FOR EXPANSION OF THE LAW LIBRARY AND REMODEL THE EXISTING BUILDING. $7,588,000 IN PRIVATE FUNDS WILL SUPPLEMENT THIS PROJECT. $7,588,000

AUGUST 31, 1987 REPORT

548
APPENDIX IX

1989–91 BIENNIAL BUDGET ACTIVITIES AND PLANS

(See page 379)
The Ohio State University
Board of Trustees

December 2, 1988

FISCAL AFFAIRS COMMITTEE (contd)

Item for Discussion: 1989-91 Biennial Budget Activities and Plans

BACKGROUND

The State is at the mid-point of the budget process for the upcoming 1989-91 biennium, where the Governor's staff are preparing the Executive Budget for presentation to the Ohio General Assembly in January 1989. For Ohio State this process started last April with work beginning on the University's biennial budget request to the Ohio Board of Regents. In July 1988, this request was submitted (copy attached which contains a summary on pages 1-9) followed by discussions between President Jennings and Chancellor Coulter in August. During September, the Board of Regents submitted their 1989-91 Biennium budget recommendation to the Governor, which is summarized in the attached materials prepared by the Regents' staff.

Discussion will deal with the time schedule until a budget is approved by the Ohio General Assembly and issues regarding the Regents' budget recommendation.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSTRUCTION</strong></td>
<td>$1,043,326.1</td>
<td>$1,082,653.2</td>
<td>$1,249,329.0</td>
<td>$1,408,074.7</td>
</tr>
<tr>
<td>Instructional Subtotals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SELECTIVE EXCELLENCE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earned Scholar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Excellence</td>
<td>50.0</td>
<td></td>
<td>10.0</td>
<td>50.0</td>
</tr>
<tr>
<td>Academic Challenge</td>
<td>3,500.0</td>
<td></td>
<td>1,000.0</td>
<td></td>
</tr>
<tr>
<td>Research Challenge</td>
<td>11,800.0</td>
<td>11,400.0</td>
<td>13,300.0</td>
<td>14,700.0</td>
</tr>
<tr>
<td>Productivity Challenge</td>
<td>10,563.8</td>
<td>12,548.1</td>
<td>13,258.5</td>
<td>14,163.3</td>
</tr>
<tr>
<td>Ohio Supercomputer</td>
<td>2,200.0</td>
<td>2,200.0</td>
<td>3,500.0</td>
<td>1,800.0</td>
</tr>
<tr>
<td>Library Access System</td>
<td></td>
<td></td>
<td></td>
<td>5,000.0</td>
</tr>
<tr>
<td>Indian College Challenge</td>
<td></td>
<td></td>
<td></td>
<td>1,000.0</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>$26,763.6</td>
<td>$38,148.1</td>
<td>$38,428.9</td>
<td>$45,933.3</td>
</tr>
<tr>
<td><strong>ACCESS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio Instructional Grants</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
</tr>
<tr>
<td>Single Parent Grants</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
</tr>
<tr>
<td>Mar Orphans</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
</tr>
<tr>
<td>Academic Scholar</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
<td>3,500.0</td>
</tr>
<tr>
<td>Developmental Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban Initiatives</td>
<td></td>
<td>50.0</td>
<td>50.0</td>
<td>50.0</td>
</tr>
<tr>
<td>Central State Supplement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Choice Grants</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access Improvement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access/Academic Incentive</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minority Graduate Opportunity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early Intervention</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School/College Transitions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demonstration Laboratories</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub-Total</td>
<td>$81,193.6</td>
<td>$86,436.1</td>
<td>$128,245.5</td>
<td>$154,183.0</td>
</tr>
<tr>
<td><strong>RESEARCH, PUBLIC SERVICE, MISC</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aerospace Institute</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate Improvement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture R &amp; D Center</td>
<td>19,131.1</td>
<td>19,341.6</td>
<td>20,714.1</td>
<td>22,086.6</td>
</tr>
<tr>
<td>Forest Extension</td>
<td>11,224.4</td>
<td>11,443.3</td>
<td>12,804.6</td>
<td>13,584.9</td>
</tr>
<tr>
<td>Urban universities</td>
<td>2,844.4</td>
<td>2,488.9</td>
<td>3,172.6</td>
<td>3,412.0</td>
</tr>
<tr>
<td>Land Education Service</td>
<td>1,211.9</td>
<td>1,211.9</td>
<td>1,288.6</td>
<td>1,258.1</td>
</tr>
<tr>
<td>Displaced Funds</td>
<td>700.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sea Grant</td>
<td>194.8</td>
<td>194.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Artificial Intelligence</td>
<td>155.0</td>
<td>155.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OI-Innovation Center</td>
<td>187.0</td>
<td>187.0</td>
<td>192.0</td>
<td>211.0</td>
</tr>
<tr>
<td>Rural University Projects</td>
<td>284.0</td>
<td>284.0</td>
<td>284.1</td>
<td>303.7</td>
</tr>
<tr>
<td>Central State Water Resources</td>
<td>300.0</td>
<td>300.0</td>
<td>316.0</td>
<td>326.7</td>
</tr>
<tr>
<td>Cleveland State Hops Program</td>
<td>120.0</td>
<td>120.0</td>
<td>120.0</td>
<td>120.0</td>
</tr>
<tr>
<td>Shannon State U. Supplement</td>
<td>1,000.0</td>
<td>1,000.0</td>
<td>1,000.0</td>
<td>1,000.0</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>$38,112.3</td>
<td>$38,618.1</td>
<td>$44,081.7</td>
<td>$48,580.4</td>
</tr>
<tr>
<td><strong>HEALTH MANPOWER</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical-Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSU</td>
<td>13,806.6</td>
<td>13,806.6</td>
<td>14,196.0</td>
<td>14,589.2</td>
</tr>
<tr>
<td>UH</td>
<td>12,806.6</td>
<td>12,806.6</td>
<td>13,286.6</td>
<td>13,788.2</td>
</tr>
<tr>
<td>MCT</td>
<td>8,725.9</td>
<td>8,725.9</td>
<td>9,450.1</td>
<td>10,054.2</td>
</tr>
<tr>
<td>OSU</td>
<td>4,098.3</td>
<td>4,098.3</td>
<td>4,424.2</td>
<td>4,717.8</td>
</tr>
<tr>
<td>OU</td>
<td>4,098.3</td>
<td>4,098.3</td>
<td>4,424.2</td>
<td>4,717.8</td>
</tr>
<tr>
<td>MEDICOS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical-Dental</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and Mic Health</td>
<td>986.5</td>
<td>986.5</td>
<td>1,060.0</td>
<td>1,128.0</td>
</tr>
<tr>
<td>CMU-Medicine</td>
<td>9,105.3</td>
<td>9,105.3</td>
<td>9,618.0</td>
<td>9,878.0</td>
</tr>
<tr>
<td>Dental</td>
<td>732.5</td>
<td>572.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary Care</td>
<td>3,674.4</td>
<td>3,674.4</td>
<td>3,873.2</td>
<td>4,232.0</td>
</tr>
<tr>
<td>Family Practice</td>
<td>7,658.4</td>
<td>7,658.4</td>
<td>8,266.3</td>
<td>8,737.8</td>
</tr>
<tr>
<td>Geriatric Unit</td>
<td>1,329.7</td>
<td>1,329.7</td>
<td>1,626.8</td>
<td>1,743.4</td>
</tr>
<tr>
<td>Child Abuse Prevention</td>
<td>206.6</td>
<td>206.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endo Cancer Hospital</td>
<td>1,000.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geriatric Oral</td>
<td>1,000.0</td>
<td>1,000.0</td>
<td>1,290.0</td>
<td>1,350.0</td>
</tr>
<tr>
<td>Area Health Educ Center</td>
<td>1,700.0</td>
<td>1,700.0</td>
<td>2,184.6</td>
<td>2,547.6</td>
</tr>
<tr>
<td>Medical Education Finance Study</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub-Total</td>
<td>$60,590.6</td>
<td>$60,590.6</td>
<td>$72,972.0</td>
<td>$76,444.6</td>
</tr>
<tr>
<td><strong>PLANNING &amp; COORDINATION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personnel Services</td>
<td>3,217.4</td>
<td>3,217.4</td>
<td>3,217.4</td>
<td>3,217.4</td>
</tr>
<tr>
<td>Maintenance</td>
<td>740.3</td>
<td>740.3</td>
<td>800.0</td>
<td>800.0</td>
</tr>
<tr>
<td>Equipment</td>
<td>10.0</td>
<td></td>
<td>40.0</td>
<td>40.0</td>
</tr>
<tr>
<td>Library Planning</td>
<td>60.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Systems Improvement</td>
<td>0.0</td>
<td>0.0</td>
<td>260.0</td>
<td>260.0</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>$3,471.2</td>
<td>$3,471.2</td>
<td>$3,497.4</td>
<td>$3,708.4</td>
</tr>
<tr>
<td><strong>FACILITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facilities Renovation</td>
<td>90.0</td>
<td>90.0</td>
<td>115,700.0</td>
<td>115,700.0</td>
</tr>
<tr>
<td>Equipment Replacement</td>
<td>0.0</td>
<td>0.0</td>
<td>13,200.0</td>
<td>13,200.0</td>
</tr>
<tr>
<td>Police &amp; Fire</td>
<td>266.0</td>
<td>266.0</td>
<td>266.0</td>
<td>266.0</td>
</tr>
<tr>
<td>BEAC-Telecommunications</td>
<td>1,000.0</td>
<td>1,000.0</td>
<td>1,000.0</td>
<td>1,000.0</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>$1,268.0</td>
<td>$1,268.0</td>
<td>$329,867.0</td>
<td>$329,867.0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$1,298,916.2</td>
<td>$1,320,808.6</td>
<td>$1,567,237.0</td>
<td>$1,772,833.3</td>
</tr>
<tr>
<td><strong>Debt Service</strong></td>
<td>$108,000.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>$1,406,916.2</td>
<td>$1,320,808.6</td>
<td>$1,567,237.0</td>
<td>$1,772,833.3</td>
</tr>
<tr>
<td>Revised 9-14-88</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OHIO'S IMPERATIVES

OHIO IS IN A PERIOD OF INCREASINGLY RAPID SOCIAL, ECONOMIC, AND TECHNOLOGICAL CHANGE. OHIOANS NEED MORE AND BETTER EDUCATION TO UNDERSTAND AND MASTER THE FORCES PRODUCING SUCH CHANGE. THE NEED FOR MORE EDUCATION IS MOST OBVIOUS IN THE ECONOMIC SPHERE, BUT IT IS CRITICALLY IMPORTANT IN OTHER ASPECTS OF LIFE AS WELL.

THE 1990-91 BUDGET RECOMMENDATIONS OF THE BOARD OF REGENTS ARE MADE TO PROVIDE BETTER EDUCATION FOR OHIOANS.

TOMORROW'S INDUSTRIES REQUIRE HIGHLY SOPHISTICATED WORKERS: THREE OF FOUR NEW JOBS WILL REQUIRE POSTSECONDARY EDUCATION.

OHIO FACES A SHORTAGE OF SUCH WORKERS.

OHIO'S FUTURE WORKFORCE WILL, AND MUST, INCREASINGLY REPRESENT THOSE FROM MINORITY, POOR, BROKEN FAMILY BACKGROUNDS. THESE NOW ARE PEOPLE UNLIKELY TO ENTER COLLEGE OR SUCCEED THERE.

Census figures show that the total non-white population has been increasing from 8.2% of the total in 1960 to 11.1% in 1980. Steady increases are projected for the future.
OHIO'S IMPERATIVES -- CONTINUED

AMERICA'S NEW INDUSTRIES WILL EMERGE WHERE CORPORATE R & D IS DONE, ESPECIALLY IF DONE CLOSE TO CENTERS OF UNIVERSITY RESEARCH.
OHIO'S CURRENT POSITION

OHIOANS HAVE BELOW AVERAGE LEVELS OF EDUCATION.

Based on 1990 census information, Ohio ranked 30th with 67% of its population having at least 4 years of high school. Ohio ranked 40th in the number of college graduates with 13.7% as compared to the national average of 16.2%.

OHIO'S MANUFACTURING WORKERS HAVE LESS EDUCATION THAN SIMILAR WORKERS IN OTHER STATES.

ONE MILLION OHIO WORKERS ARE JUDGED TO NEED RETRAINING.

RELATIVELY FEW OHIOANS GO ON TO COLLEGE AFTER GRADUATION FROM HIGH SCHOOL; THE EDUCATION GAP IN OUR WORKFORCE, IF NOT ADDRESSED, WILL CONSEQUENTLY GROW IN THE FUTURE. RECENT IMPROVEMENTS IN STATE EDUCATION AND R & D FUNDING ARE HELPING -- BUT OTHER STATES ARE MOVING AGGRESSIVELY TOO.

FOR A LONG PERIOD, OHIO HAS BEEN IN DECLINE.

- OHIO'S PER CAPITA PERSONAL INCOME IS SLIPPING RELATIVE TO THE NATIONAL AVERAGE.

(From rank 14, equal to national average in 1970, to rank 25, 5.6% below the national average in 1987.)
OHIO'S CURRENT POSITION -- CONTINUED

- OUR SHARE OF U.S. MANUFACTURING IS STEADILY FALLING.

According to the Census Bureau, as a percent of U.S. totals, Ohio's share of employees in manufacturing declined from 7.2% in 1967 to 6.0% in 1981. The share of value added and value of shipments has also been declining. In addition, based on the Hudson Institute Workforce 2000 Report, U.S. manufacturing as a whole will be a much smaller share of the U.S. economy with service industries gaining importance.

- OUR UNEMPLOYMENT RATE, RELATIVE TO U.S. AVERAGES, HAS BEEN RISING DURING EACH ECONOMIC CYCLE.

OHIO IS STILL WELL BELOW THE NATIONAL AVERAGE IN CORPORATE RESEARCH AND DEVELOPMENT AND IN UNIVERSITY SPONSORED RESEARCH. CONSEQUENTLY, INDUSTRIES THAT WILL SPRING UP AROUND NEW TECHNOLOGIES ARE UNLIKELY TO EMERGE IN OHIO.

In 1984, Ohio ranked 37th among the states in Federal research grants per capita to colleges and universities. Ohio's per capita share was 42% below the national average.

In addition, Cleveland Tomorrow has reported that from 1970 to 1985, U.S. industry had a 68% increase in R & D spending. Although the Great Lakes states reflected a 30% increase, Ohio showed virtually no change.
OHIO'S CURRENT INVESTMENT

HIGH TUITIONS AND LOW STATE SUPPORT - A RISKY COMBINATION

STATE APPROPRIATIONS PER STUDENT, 1987-88
- 18% Below National Average.
- Ranks 41st Among States, Even After the Increased Investments of the 1980's.

TUITION PER STUDENT, 1987-88
- 46% Above National Average.
- Ranks 7th Highest Among States.

TUITION PER STUDENT, 1985-86
Public 4 Year Campuses
- 41% Above National Average.
- Ranked 5th Highest Among States.

Public 2 Year Campuses
- 74% Above National Average.
- Ranked 5th Highest Among States.

COMBINED STATE APPROPRIATIONS AND TUITION PER STUDENT, 1987-88
- 3% Below National Average.
- Ranks 28th Among States.
MAJOR BUDGET THEMES

- STRONG BASE BUDGETS, REINFORCING AND BUILDING QUALITY - BETTER EDUCATION AT A FAIR COST

- ENHANCING ACCESS AND SUCCESS

- FOSTERING EXCELLENCE

- FOSTERING RESEARCH

- SERVING WORKERS' NEEDS
  - For Currently Displaced Workers
  - For A Lifetime of Changing Careers
STRONG BASE BUDGETS
INSTRUCTIONAL SUBSIDY

FUNDING IS NEEDED TO REDUCE THE STUDENT'S SHARE OF THE COST OF HIGHER EDUCATION. THIS IS EXPENSIVE. IT ADDS NOTHING TO COLLEGE AND UNIVERSITY BUDGETS, SINCE IT SIMPLY SHIFTS SOME OF THE BURDEN OF SUPPORT FROM STUDENTS TO THE STATE. BUT IT IS ESSENTIAL IF MORE OF OUR PEOPLE ARE TO BE PREPARED FOR THEIR FUTURES.

FUNDING IS NEEDED TO PRESERVE STABILITY AND QUALITY IN OUR INSTITUTIONS. STABILITY MEANS AN ATTRACTIVE ENVIRONMENT AND FUNDS TO GO FOR THE BEST FACULTY TALENT. IT ENABLES UNIVERSITIES TO SET, AND MEET HIGHER QUALITY STANDARDS. IT ALSO ALLOWS THE IMPROVEMENTS FUNDED IN PAST YEARS TO DEVELOP MOMENTUM AND PRODUCE SUBSTANTIAL IMPACT IN THE FUTURE.

THIS REQUIRES INCREASES ADEQUATE TO MEET COSTS OF INFLATION (E.G. RISING HEALTH INSURANCE) AND TO KEEP PACE WITH ACADEMIC JOB MARKET.

INCORPORATION OF SECOND ROUND OF ACADEMIC CHALLENGE FOR PERMANENT ENHANCEMENT OF QUALITY.
ALLOWANCE FOR ENROLLMENT INCREASES OF 1.0 - 1.5 PERCENT.

A FINE TUNING OF THE SUBSIDY FORMULAS WILL PRODUCE STATE SUBSIDIES MORE PROPORTIONATE TO INSTRUCTIONAL COSTS ON VARIOUS CAMPUSES.
ACCESS AND SUCCESS

- REDUCTION OF STUDENT SHARE FROM 41% NOW TO 35% BY 1991

COST: $50 Million 1990
$110 Million 1991

Nothing done on campus will help those who cannot afford to get to campus. Public higher education must be affordable to all the public. Families need stability in fees if they are to plan effectively to support the education of their children.

- INCREASES IN FINANCIAL AID

- 60% Increase in Ohio Instructional Grant Support Over 2 Years, Targeted to Poor and Near-Poor Families. Significantly Reduces Their Dependence On Loans. Assists Students in Both Public and Private Institutions.

- New Single Parent Grant Program for Part Time Students.

- TARGETED ACCESS PROGRAMS, COSTING $38 MILLION FOR THE BIENNium

- New Access/Retention Challenge Program.
  - Formula Funding to Support Additional Efforts by All Institutions.

- New Minority Graduate Opportunity Program.
  - Ohio's Response to the Nationwide Shortage of Minority Faculty.
  - Participation to Include Case Western and Dayton.

- Access Improvement

- New Early Intervention Program Aimed at Middle School Students.
  - Designed to Reinforce Motivation at a Critical Age.
  - Competitive Grants Available to Public and Private Institutions.

- New School/College Transitions Program Aimed at Senior High School Students.
ACCESS AND SUCCESS -- CONTINUED

- New Demonstration Laboratories.
  - To Bring Together All Concerned Agencies in A Community to Work On the Problems.

- Significant Increase in Developmental Education to Provide More Help to Ill-Prepared College Students.
FOSTERING EXCELLENCE

- CONTINUE A STRONG INVESTMENT IN SELECTIVE EXCELLENCE: $80 MILLION

Eminent Scholar: Nine Additional Awards to Further Strengthen Superior Graduate Research Departments.

Program Excellence: Twenty-Two Additional Awards to Recognize and Enhance Outstanding Undergraduate Programs.

Academic Challenge: A Third Round of Programs on Every Campus.

Research Challenge: Additional Leverage to Increase Sponsored Research.

Productivity Improvement Challenge: A New Focus on Business and Industry Relationships with Two Year Campuses.

Supercomputer Center: Continued Support for A Center Quickly Achieving National Recognition.

Independent College Challenge: A Second Round of Awards for Outstanding Liberal Arts Programs.

Library Access System.

- ENHANCE UNDERGRADUATE EDUCATION

Build on Program Excellence Results with Undergraduate Education Enhancement, $3 Million.
FOSTERING RESEARCH

- SELECTIVE EXCELLENCE INITIATIVES
  
  Eminent Scholars
  Research Challenge
  Supercomputer Center
  Library Access System

- OHIO AEROSPACE INSTITUTE
  
  One Year of Administrative Support
  Two Years of Fellowship Support

- OHIO ACADEMIC NETWORK

- OHIO COUNCIL ON RESEARCH AND ECONOMIC DEVELOPMENT
SERVING OHIO'S WORKERS

- ENHANCEMENT AND TARGETING OF PRODUCTIVITY IMPROVEMENT

- Focus on Building Relationships with Business and Industry.
- Support for Collaborative Regional and Statewide Projects.
- Support for Customized Credit Instruction.
The Ohio State University, as Ohio's land-grant university, is committed to keeping higher education accessible, and holding tuition increases to the lowest possible levels is essential in maintaining accessibility. However, tuition levels are directly impacted by the degree of support provided by the State of Ohio. This University is in the midst of enhancing Ohio State's status not only as the flagship University of the State, but also creating a nationally recognized model for the leading universities of the 21st century. Such institutions will combine the comprehensiveness of a broad spectrum of high-quality programs with diverse student bodies and tuitions that maximize accessibility.

The emerging national and international preeminence of The Ohio State University can only be maintained during this crucial developmental period if State support is provided at a level similar to that of the 1985-87 biennium. This University cannot sustain excellence solely through student fees. The State must strengthen the instructional subsidy if Ohio State is to maintain its progress within the context of its land-grant mission.

This goal can be reached only with a partnership effort by the Regents, Governor, General Assembly, and University. Now is the time for this partnership to take the lead and establish the new standard for the model university for the twenty-first century. Ohio is in a unique situation since there is a single flagship university having the diversity and comprehensiveness so critical to the needs of the modern world as we move toward the next century.

Higher education is still unattainable for many Ohioans and, in particular, minorities who have low family income. Our minority students contribute to one of the University's greatest assets - diversity. We can ill-afford to lose this asset due to a lack of economic support; nor can the State of Ohio afford the loss of this untapped talent for leadership, creativity, and service. Among the middle classes, academic high-achievers are increasingly caught between rising education costs and the maximum income allowed to qualify for need-based financial aid. State funding for Ohio National Merit and National Achievement Scholarships will help insure that our academic achievers -- minority and majority students -- remain in Ohio for their education and their careers.

I. INSTRUCTIONAL SUBSIDY

For the 1989-91 biennium, the University's highest priority is once again full funding of the instructional subsidy model. Offering the highest-quality curriculum while maintaining accessibility to higher
education is a key component of our mission. Thus, we are most concerned about the student share increases since 1987. This share again soared to 40 percent during the current biennium, reversing a promising trend to lower the student share to 30 percent.

The subsidy model also must provide for salary levels which keep pace with other comparable institutions. The case for competitive salaries for faculty and staff members cannot be overstated. Ohio institutions must continue to attract faculty members who can contribute to the economic resurgence of this State and provide the academic quality that is required to attract the best and brightest students from Ohio, the nation, and the world.

Graduate and professional education are critical elements of this University's mission. The Graduate, Medical I, and Medical II instructional fee assumptions are far greater than the amounts actually charged by Ohio's public universities for students in these categories. For instance, at Ohio State, academic year 1988-89 annual resident instructional fees are $2,283 for graduate students, $3,924 for Medical I students, and $4,785 for Medical II students. The assumed fees for fiscal year 1988-89 are $4,247 for graduate students, $6,821 for Medical I students, and $7,571 for Medical II students. In light of the large disparities between the fees assumed and charged, we request that the Board of Regents lower these fee assumptions.

The nature of doctoral and professional programs at Ohio State and other universities has changed over the years. In an increasingly complex world, greater levels of knowledge, more sophisticated techniques, and increased specialization are necessary. As a consequence, it now takes much longer to complete a doctoral or professional degree program than it did several years ago. This phenomenon is not restricted to a few areas; it is occurring in most disciplines. Current rules of the Board of Regents do not allow subsidizing students who have already accumulated more than 200 credit hours towards their doctorates or for Medical I and II students beyond the 12-quarter limit. These rules, which have been in effect for many years, should be reexamined and an increase in the ceiling implemented to preserve program quality and provide for financial equity.

Another result of a more complex world is the heightened importance of libraries to colleges and universities. Library patrons must be able to access easily the information they require. The Ohio State University enthusiastically supports the Regents' initiatives for library automation. We see the need to move forward with comprehensive efforts to electronically link the catalogues of Ohio's university libraries as the first stage of integrating academic library resources. In addition, major acquisition needs for serials and journals, as well as books, require attention in the subsidy funding models. These costs continue to rise at a rate that exceeds 40 percent over the past two years. A related emphasis should be continued planning of computer-assisted library communication and establishing statewide access to on-line databases, perhaps through negotiations in which the Regents act on
behalten of all State universities to gain reduced rates from the
information providers.

II. STUDENT ACCESS AND SUCCESS

The Ohio Board of Regents has argued for bold new steps in
addressing accessibility of higher education for Ohio's youth. The Ohio
State University proposes that the Board of Regents support the Young
Scholars Program -- an innovative way to increase the pool of college-
eligible minority youth.

The Ohio State University has established the Young Scholars Program
to increase the number of Black, Hispanic, and other underrepresented
minorities who obtain college degrees. This program identifies students
during their middle school years and works with them to realize their
academic and personal potential to the point of entry into college. A
pilot program has begun with 200 minority youth from eight urban areas of
the State. This summer, the youth who have just completed the 6th grade
will have a two-week summer experience on the Columbus campus of The Ohio
State University. This summer program will be part of their
participation each year from the 6th through the 12th grades. In
addition, each student will be assigned a community mentor to maintain
contact with the student and his or her family, and to provide a link to
the University. Students who participate fully in the Young Scholars
Program and who satisfactorily complete a college preparatory high school
curriculum, are guaranteed admission into The Ohio State University with
an appropriate financial aid package.

The Young Scholars Program provides a model for expanding the pool
of college-eligible minority youth in the State. It is our hope that the
pilot program will be expanded to include 400 new sixth grade students
each year beginning in fiscal year 1990. We request State appropriations
of $1.2 million in fiscal year 1990 and $2 million in fiscal year 1991.
This funding would support 600 students in fiscal year 1990 with 200 from
the pilot project and 400 new students. The fiscal year 1991 request
would fund 1,000 participants. There is every reason to believe that
once the program has been piloted on The Ohio State University campus,
the model could be readily replicated at a number of state-assisted
campuses across Ohio.

The State of Ohio has the opportunity to move ahead aggressively to
prepare the coming generation for State and national leadership through
excellence and access in higher education. We must send a clear message
to the minority population of Ohio that they should settle for nothing
less than the full development of their talents and abilities. Our
economy, our quality of life, and our hopes for the future rest on the
initiation of effective measures for nurturing talent in our growing
minority population. This proposal is a small beginning at moving into
the 21st century as a state that embraces its entire population in a
voice of pride, productivity, and purpose.
III. EXCELLENCE

The mounting intensity of global competition and the emergence of a true world economy underscore the vital role that will be played by excellence in research in the next decades. In the international economy of the future, America's competitive strength will not be based on inexpensive natural resources or low-cost manufactured goods. Instead, knowledge will be at the forefront of the new economic era.

For Ohio to be a successful competitor in tomorrow's economy, the strength and excellence of its academic and research programs in higher education is critical. This excellence must extend to all areas of education -- the humanities as well as business, the social sciences and education as well as engineering and the physical sciences. All areas of the University will be making contributions to the organization, interaction, and production of our global economy.

In this context, the role played by The Ohio State University within the State can be critical. This University is in a unique position due to its diversity of programs and extensive pool of talent and knowledge. We must serve as a pilot institution to help discover, coordinate, and disseminate methods, techniques, and facilities to our sister institutions.

The role of Ohio State in the Ohio Supercomputer project is one such example. Working cooperatively with other institutions throughout the State, this project is creating the most advanced Supercomputer facility in the nation. In return, this facility provides a major boost to research and computational capability for the academic and the business communities and significantly increases the caliber of talent that can be attracted to Ohio institutions and industries.

However, we cannot rest on our past successes. We must continue to recognize and develop new opportunities. We recommend support of a project at the University that could serve as a critical pilot effort that would be beneficial to the entire State. We propose the extension of excellence funding to implement the new undergraduate curriculum model at The Ohio State University. The University already has made considerable progress in defining the elements of this new program. Further refinement and implementation of such a massive undertaking, however, will involve costs beyond those incurred in the typical instruction program.

The new undergraduate curriculum will prepare citizens for an increasingly complex, technical, sophisticated, and international world. By nurturing students' capacity for effective communication, logical thinking, and critical analysis, the foundations for life-long learning to adapt to a changing world will be established. To achieve this objective has meant the development of a new curriculum and new courses, far beyond reshuffling of current requirements. The University has made major strides in this context.
We have been able to break some of the traditional boundaries between disciplines and focus on the total educational experience. The extensive breadth and expertise of our faculty have brought definition to the essential elements of a general education, and agreement has been reached as to the direction and form of this new curriculum. The result is a truly rich and diverse program that also is very focused. The Ohio State University is emerging as a national leader in the effort to implement significant curriculum reform to address the needs of a changing world. The directors of both the Educational Testing Service and the Carnegie Foundation have come to Ohio State to provide advice and to view our efforts.

With the implementation of the new curriculum will be new costs. The University has been able to use internal funds to assist in the development process. Once these changes are implemented, however, significant changes will occur in the patterns of instruction. Instead of selecting from a range of general requirements early in their undergraduate careers, students will pursue a comprehensive, integrated general education program that extends across their entire undergraduate experience. A greater emphasis will be placed on developing skills in communications, critical analysis, and logical thinking as an integral part of a student's program of study. The study of foreign language and culture will be expanded to all students. New courses will be added to provide an interdisciplinary, integrative capstone experience at the end of a student's program.

These changes will demand smaller classes, a multi-disciplinary approach, and more classes being taught by senior faculty. We must also assist the faculty in adapting to an increasingly interdisciplinary environment that demands a broad range of skills, and we will have to retrain advising and support staff to assist in this bold new effort. A two-percent increase in the enrollment-related elements of the undergraduate models would fund Ohio State's additional expenses, which will total approximately $3 million annually. Support for our efforts would not only assist this University, but would help us serve as a pilot project and facilitate sharing our experiences and findings with other institutions in the State.

The current Selective Excellence programs have focused national attention on Ohio's higher educational leadership and have aided Ohio State in achieving great strides in its three-fold mission of teaching, research, and related public service.

The Research Challenge Program has proven to be of great assistance in bringing new money into Ohio. During the 1983-85 biennium, the University's expenditure of external research funds was approximately $179.4 million. During the 1985-87 biennium, due in large part to the Research Challenge initiative, this amount increased by $44.8 million to $224.2 million. As federal agencies move more aggressively toward funding large centers, in contrast with the traditional individual investigator grants, we must be in a position to respond positively. Large center grants demand more direct cost sharing on the part of the
institution and improved infrastructure, but they provide maximum opportunity for the support of graduate students, for productive interdisciplinary relationships among students and faculty members, and for useful interaction with industry. Ohio's universities have been successful in attracting external funding to Ohio due to incentives provided through the Research Challenge Program. Additional funding will better enable our universities to compete for public and private funding for major research centers. We are requesting that the Research Challenge Program match be funded at twenty percent of all external research funds.

The Eminent Scholars Program has greatly enhanced the ability of the State's universities to increase the number of high-caliber faculty. The advantages of this program have been successfully realized during the last three biennia. However, we recommend that this program be altered in its focus to recognize and encourage young faculty scholars throughout Ohio's colleges and universities. This can be accomplished by utilizing these funds for awards to institutions whose faculty members are honored as Governor's Young Investigators through a competitive process similar to that conducted for the Presidential Young Investigators awards funded by the National Science Foundation. The award winners would receive the interest distributed from the $500,000 endowed fund for four years to aid their scholarly activities. By endowing these funds, these awards can continue to recognize young faculty scholars beyond the biennia of initial program funding.

The Productivity Improvement Challenge was created to help increase participation and retention of Ohio's citizens in postsecondary education and to develop greater flexibility in responding to the educational, training, and retraining needs of local business and industry. We recommend continued funds to enhance the quality of programs at our regional campuses and the Agricultural Technical Institute.

The continuation of the Academic Challenge funds will allow us to expand and enhance efforts to support programs which are outstanding and have the potential to quickly achieve preeminence. This important funding allows departments to plan long-range programs of the highest quality within the context of the strategic planning efforts now occurring at the University. Through the process of strategic planning, we are facilitating the drive for excellence by helping to clarify our areas of strength and how we can make progress. Funds provided by the first two rounds of the Academic Challenge Program have enabled us to very effectively recruit outstanding new faculty which in turn helps to attract the brightest graduate and undergraduate students. The programs supported compete effectively with the very best programs available in the country. In combination with our strategic planning efforts, continued Academic Challenge funds will ensure that the long term gain in excellence at this University will be multiplied.

The Program Excellence initiative enriches the quality of undergraduate programs in response to the expectation of better-prepared students entering Ohio's colleges and universities. The last entering
class of freshmen at Ohio State showed a noteworthy improvement in standardized test scores and in their curricular preparation for college compared to the previous class. Increased funding will allow continued expansion of excellence in undergraduate education which will challenge and excite these students. It is particularly important that new technologies and methodologies be made available to our undergraduate students.

It is important to note that the excellence and challenge programs of the State have enabled this University to extend initiatives already begun with our own reallocated internal resources. Combined with our enormous campaign for private and corporate gifts, we have been able to aggressively recruit some of the top faculty in the country. A recent noteworthy accomplishment was our success in bringing a Nobel Laureate to the University. The faculty continues to attract increasing amounts of sponsored research. Many of the programs made possible through these sources, together with the excellence funding, are applying technology and scholarship to Ohio's problems and contributing to a strong future for the State.

IV. EQUIPMENT & FACILITIES RENOVATION

The need for equipment and facilities upkeep and modernization is a continuing one. Additional instructional subsidy funds are necessary to keep pace with research needs and technological changes. Remedial measures such as asbestos and PCB removal from existing buildings also must be addressed. We support the Regents' initiative to review the subsidy formula's plant operation and maintenance models.

Beyond full funding of the currently defined instructional subsidy, it is important that in the 1989-91 biennium, new components of the subsidy model be initiated to fund facilities and equipment modernization and replacement from the operating budget. While Utilities and Renovation monies from the capital budget have been the resource for these funds, the uncertainties of capital appropriations limit long-range planning for facilities and equipment maintenance/replacement. In addition, such activities impact operating funds through debt service expenses. It is crucial that the State begin the process of converting this support to an on-going commitment or an extension of the annual instructional subsidy. This new approach not only will encourage improved long-range planning of more effective maintenance and modernization of the State's investment in facilities and equipment, but over the long-run will reduce operating costs and debt service expense.

The Ohio State University supports the concept of developing a formula for the distribution of facilities renovation funds as part of the instructional subsidy. It is proposed that the formula include funds for: street improvements, building maintenance such as window replacement and roof improvements/replacements, utility system improvements, and other similar renovation projects. In addition, there should be a component that considers the aging and obsolescence of buildings.
Finally, a component that recognizes changes in the University's programs should be included in the formula.

Such a formula should generate $30 million for the Columbus campus, and approximately $2 million for the Agricultural Technical Institute and the regional campuses. Of course, it is assumed that major capital improvements, including new buildings, the backlog of renovations, and other large capital projects would continue to be funded from the capital budget.

We urge that the Regents request $52 million for equipment replacement to be allocated according to the formula developed by the Regents. This level of funding would provide approximately $13 million for the Columbus campus of The Ohio State University and $275,000 for the regional campuses and the Agricultural Technical Institute.

V. AGRICULTURE AND HEALTH SCIENCES

While we have emphasized priorities related to core instructional and research support, we cannot overlook the particular needs of the various line-item funded programs, especially those in agriculture and medicine. These specially funded programs provide The Ohio State University with a margin of excellence to meet the needs of Ohio's agri-business community as well as to enhance the clinical teaching and medical research initiatives for the people of Ohio.

Assistance is needed in agricultural research efforts in the biotechnology fields. Increased support is necessary for the Ohio Agricultural Research and Development Center so that Ohio can construct longer-term responses to current crises and be better prepared for the 21st century.

We ask that full funding be provided for the Ohio 21 agricultural programs of the Ohio Agricultural Research and Development Center and the Ohio Cooperative Extension Service. The Ohio 21 program has thrust Ohio into a national and international leadership position in the agricultural and food industries. Now, it is imperative that additional funds be provided to allow full implementation of Ohio 21 so that The Ohio State University will be positioned to respond to the economic and social changes that are underway in agriculture.

It is in the health sciences area, perhaps, that one can see most clearly the inter-relationship between instruction, research, and service. Continued research holds promise for the successful treatment of untold numbers of patients in the future. Clinical experience and patient care are at the heart of health-related instructional programs. Our health services center is preparing for the opening of the new Arthur C. James Cancer Hospital and Research Institute currently under construction. Funding is needed for the 1989-91 biennium to assist in the costs associated with this major new facility that cannot be covered by patients and third parties.
While The Ohio State University will continue ambitious plans for the Arthur G. James Cancer Hospital and Research Institute, further improvement is required in our University Hospitals. Funding is needed to continue our efforts in the biotechnological fields of medicine, in gerontology, in maternal and pediatric treatment, in primary care, in neurological diseases, and in basic care support in our University Hospitals. New initiatives in research in Alzheimer’s disease, arthritis, and molecular biology also must be supported to assist the citizens of Ohio.

The Ohio State University uses appropriations for the Area Health Education Centers (AHEC) to attract and retain health care professionals in areas needing them. Funding for AHEC has been provided jointly by the state and federal governments, but the federal government is terminating its support. For these centers to survive, the State must continue to compensate for these lost federal funds.
## THE OHIO STATE UNIVERSITY
Summary of 1989-91 Biennial Budget Request

<table>
<thead>
<tr>
<th></th>
<th>1985-87 Actual</th>
<th>1987-89 Estimate</th>
<th>1989-91 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSTRUCTIONAL SUBSIDY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Columbus Campus</td>
<td>425,393,184</td>
<td>474,735,209</td>
<td>613,298,762</td>
</tr>
<tr>
<td>Regional Campuses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lima</td>
<td>3,487,015</td>
<td>4,205,689</td>
<td>5,765,126</td>
</tr>
<tr>
<td>Mansfield</td>
<td>3,638,292</td>
<td>4,174,648</td>
<td>5,843,820</td>
</tr>
<tr>
<td>Marion</td>
<td>2,578,992</td>
<td>3,469,970</td>
<td>4,759,265</td>
</tr>
<tr>
<td>Newark</td>
<td>3,112,985</td>
<td>4,150,327</td>
<td>6,549,059</td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>5,272,150</td>
<td>6,898,875</td>
<td>8,271,352</td>
</tr>
<tr>
<td>Subtotal Regional Campuses</td>
<td>18,089,444</td>
<td>22,899,509</td>
<td>31,190,622</td>
</tr>
<tr>
<td><strong>TOTAL INSTRUCTIONAL</strong></td>
<td>443,482,628</td>
<td>497,634,718</td>
<td>644,489,364</td>
</tr>
</tbody>
</table>

| **EXCELLENCE** |               |                  |                 |
| Research Challenge | 12,908,911  | 10,004,360       | 54,000,000      |
| Academic Challenge | 4,766,710  | 4,971,913        | 6,632,987       |
| eminent Scholars | 2,000,000   | 1,500,000        | 4,000,000       |
| Program Excellence | 289,480       | 430,710          | 500,000         |
| Productivity Improvement Challenge | 378,966 | 325,000         | 400,000         |
| Supercomputer | 0  | 7,500,000        | 10,000,000      |
| Undergraduate Curriculum | 0 | 0              | 6,000,000       |
| **TOTAL EXCELLENCE** | 20,344,067 | 24,731,983       | 81,532,987      |

| **LINE-ITEM CATEGORIES:** |               |                  |                 |
| OARC | 36,925,984 | 38,692,655 | 51,577,292 |
| Cooperative Extension | 20,969,021 | 22,677,664 | 30,507,692 |
| Medical Clinical Teaching and Research | 26,566,825 | 27,211,159 | 32,075,100 |
| Minority Student Recruitment/Access | 0 | 0 | 3,200,000 |
| Health Professions Clinics Support | 1,916,303 | 1,963,021 | 2,646,000 |
| Cancer Research Institute Developmental Education | 0 | 1,000,000 | 6,000,000 |
| Columbus | 105,039 | 104,176 | 376,700 |
| Regional | 31,959 | 33,261 | 164,001 |
| Subtotal | 136,998 | 137,437 | 540,701 |
| Labor Education and Research | 2,408,279 | 2,423,822 | 4,321,995 |
| Family Practice | 2,096,655 | 2,272,354 | 3,936,000 |
| Primary Care | 1,009,981 | 1,023,687 | 1,248,000 |
| Geriatric Medicine and Gerontology | 370,143 | 380,790 | 735,000 |
| Maternal and Child Health | 0 | 0 | 1,600,000 |
| Neurobiotechnology | 0 | 0 | 1,600,000 |
| Ohio Sea Grants | 399,000 | 399,000 | 770,000 |
| Center for Foreign Languages | 0 | 0 | 525,000 |
| Ohio State Biotechnology Center | 0 | 0 | 3,351,000 |
| Marion Student Services | 269,375 | 0 | 0 |
| **TOTAL LINE-ITEMS** | 93,048,564 | 98,181,719 | 144,633,780 |

| **GRAND TOTALS** |               |                  |                 |
| Columbus | 500,699,531 | 558,098,065 | 786,824,216 |
| Regional | 19,249,764 | 23,757,770 | 32,254,623 |
| OARC | 36,925,984 | 38,692,655 | 51,577,292 |
| **TOTAL ALL CAMPUSES** | 556,875,259 | 620,548,490 | 870,656,131 |

| **OTHER REGENTS APPROPRIATIONS** |               |                  |                 |
| Math & English Testing | 413,895 | 359,000 | (1) |
| Urban University Center | 185,000 | 198,953 | (1) |
| Area Health Education Centers | 282,436 | 383,779 | (1) |
| Cancer Control Consortium | 1,672,660 | 0 | (2) |
| **OTHER REGENTS APPROPRIATIONS** | 2,533,991 | 941,732 | 0 |

(1) Recommendations determined by committees.
(2) The Cancer Control Consortium is an independent agency.

UBP/July 29, 1988

574
The Ohio State University supports most of the changes proposed by the Board of Regents to the instructional subsidy. The Regents' proposals to include funding for the first two rounds of the Academic Challenge Program in the instructional subsidy, to reassign biological sciences to the Baccalaureate III model, and to reduce all students' share of their educational expenses are all very positive steps.

However, the University opposes in the strongest possible terms the Regents' proposal to create separate fee assumptions for each undergraduate model. A two-tier system that would track students toward certain types of institutions with fee differentials risks establishing structural discrimination. There is no place for economic educational elitism in the State of Ohio. The Regents has maintained that this change would improve access. In fact, such a change would have a devastating effect on access for low-income students.

The Regents' proposal works counter to our efforts at enhancing retention. Furthermore, it is disadvantageous to institutions to accept upper-division transfer students, which is counter to our efforts to improve articulation programs.

The desire to have students pay an equal share at all program levels ignores the actual costs to the students in the interest of percentage equality. If the Regents' proposal were adopted, in fiscal year 1991, General Studies I students would be assumed to pay about $1,500 toward the cost of their education, while Baccalaureate III students would be assumed to pay more than double that amount--$3,175.

There are, nevertheless, several recommendations that the University supports. The incorporation of the first two rounds of the Academic Challenge Program into the instructional subsidy provides the stable funding necessary to guarantee the continued development of excellent programs. Efforts made by the Regents to reduce students' share of educational costs move us closer to the goal of students paying no more than 30 percent of the cost of providing a college education.

We endorse the Regents' proposal to adjust base year enrollments for growing and contracting institutions. The planned phase-in of new base year enrollments protects institutions against radical changes in their subsidy earnings. Furthermore, the Regents' proposed change in the Small Campus Factor for the General Studies models will assist small institutions that suffer enrollment declines in these model categories.

Ohio State welcomes the proposed reassignment of biological sciences from the Baccalaureate II to the Baccalaureate III model. It is a recognition of the very high costs associated with this area.

Adjustments to the cost components of the subsidy model are quite reasonable. We feel that the factors used by the Regents to advance the
model rates, especially those for compensation and library acquisitions, reflect the cost increases that colleges and universities will incur in the coming biennium.

The University's request for the instructional subsidy incorporates all of the changes recommended by the Regents with the exception of fee assumptions. Students' decisions about which college or university to attend should be based on academic, not economic factors. We favor inviting open, competitive proposals for access incentives and retention solutions that will fully develop Ohio's human resources. Our request retains one undergraduate fee assumption--$1,976 for each year of the biennium. This amount was calculated by weighting the Regents' separate undergraduate fee assumptions, based on fiscal year 1988 enrollments, to achieve one undergraduate fee assumption. Also, the Regents proposes increasing the Graduate, Medical I and Medical II fee assumptions, but proposes a reduction in the aggregate undergraduate fee assumption. Our request holds the Graduate, Medical I and Medical II fee assumptions at the fiscal year 1989 levels.
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

The Ohio Supercomputer Center

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$5,000,000</td>
<td>$5,000,000</td>
</tr>
</tbody>
</table>

Program Statement Summary

Although The Ohio Supercomputer Center has been in existence only a matter of months, it has already had a very positive impact on Ohio's businesses and institutions of higher education. The University strongly supports the Center's request for State funding.

Program Statement

The Ohio Supercomputer Center was dedicated on November 2, 1987. In the seven months between November, 1987 and June, 1988, the Center's impact on the research community in the State clearly is meeting expectations. At 22 private and public universities and colleges, faculty investigators are addressing scientific and engineering problems of a scale previously impossible within the State of Ohio. Representatives from 23 Ohio industries are discussing applications of supercomputing technology of interest to their firms. Presently, two industries have signed contracts. In central Ohio, research staff at Battelle Memorial Institute are initiating use of the Center's Cray X-MP machine. In northwest Ohio, research engineers at Glasstech in Perrysburg are designing the windshields for automobiles of the 1990s using the Cray. Negotiations are proceeding toward closure on more such agreements.

The Center's impact in the higher education community is evident in the number of outstanding scientists and engineers who have joined faculties at Ohio institutions and who expressly stated that access to the Ohio Supercomputer Center was the determining factor in their choice to come to this state. The Center was pivotal in the decision process that resulted in a nobel laureate, Doctor Kenneth Wilson, and an Ohio Eminent Scholar, Doctor Gregory Burns, joining the faculty at The Ohio State University. Ohio's higher education institutions now have a competitive advantage in attracting and keeping some of the best scholars in the nation.

The impact of the Center in attracting new funds for the conduct of research hitherto impossible in the State of Ohio is evident in the number of proposals being submitted to federal agencies. Faculty members seeking external funds to support their research efforts now have a distinct competitive advantage. In northeast Ohio, access to the Ohio Supercomputer Center's supercomputer aided the University of Akron's
engineering faculty in securing a $677,000 grant to study advanced computational techniques. With the Center providing supercomputing resources, scientists and engineers in Ohio now represent high-quality, cost-effective alternatives to the traditional East Coast/West Coast distribution of research funds.

Of perhaps greater importance than the number of proposals from individual investigators is the synergy among scholars in different disciplines and among faculty located at separate Ohio schools. A number of major multi-disciplinary Center proposals have been dispatched specifically because the Center’s presence prompted technologically oriented initiatives that crossed traditional boundaries. A faculty group at Kent State University has proposed a $17 million NSF Science and Technology Center for joint university-industry research. This proposal depends upon access to the Ohio Supercomputer Center for solution to problems in liquid crystal research.

As a new generation of advanced students is educated in the supercomputing environment, the role of Ohio’s educational institutions in providing professionals for the nation’s technologically sophisticated industries will grow. In southeast Ohio, physicists and chemists at Ohio University use the Ohio Supercomputer Center’s Cray to study nuclear and atomic structure. At the University of Cincinnati, surface scientists and engineers study new materials and dynamics of fluid flow in machinery using the computational power of the Cray. This community of professionals will serve to enhance the reputations of their respective institutions and attract new high-technology industries to locations in Ohio.

In fiscal year 1989, the operating budget provided by the State of Ohio is $4.5 million. This sum is augmented by $1.1 million from The Ohio State University for one-time start-up costs. We propose that the State commit to level funding of $5.0 million in each year of the next biennium. The Ohio State University will continue its commitment to augment this operating budget with $2.0 million over the 1989-91 biennium to assist in defraying the Ohio Supercomputer Center’s start-up costs.

Even with the arrival of the Cray Y-MP 8/32 supercomputer in the fall of 1989, the success of the Center to date enables it to request only a small percentage increase in the State-supplied operating funds to cover the additional costs of operating this next generation supercomputer, a machine with 10 times the computing power of the current generation Cray X-MP/24 machine. The annual budget of $5.0 million will allow us to complete the Center’s start-up phase through 1991 and support the fast-growing community of academic and industrial users, as well as train the very first generation of Y-MP users in the nation.

578
Ohio Agricultural Research and Development Center

Budget Summary
($ in thousands)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>$4,962</td>
<td>$5,212</td>
<td>$5,320</td>
<td>$5,374</td>
<td>$5,400</td>
</tr>
<tr>
<td>State</td>
<td>18,776</td>
<td>19,151</td>
<td>19,542</td>
<td>23,837</td>
<td>27,740</td>
</tr>
<tr>
<td>Local</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Grants &amp; Contracts</td>
<td>3,015</td>
<td>3,050</td>
<td>3,100</td>
<td>3,150</td>
<td>3,200</td>
</tr>
<tr>
<td>Private</td>
<td>1,563</td>
<td>1,570</td>
<td>1,575</td>
<td>1,580</td>
<td>1,600</td>
</tr>
<tr>
<td>Other 1</td>
<td>1,598</td>
<td>1,600</td>
<td>1,610</td>
<td>1,620</td>
<td>1,640</td>
</tr>
<tr>
<td><strong>TOTAL OPERATING INCOME 2</strong></td>
<td><strong>$29,914</strong></td>
<td><strong>$30,583</strong></td>
<td><strong>$31,147</strong></td>
<td><strong>$35,561</strong></td>
<td><strong>$39,580</strong></td>
</tr>
<tr>
<td>Personnel</td>
<td>$21,481</td>
<td>$23,289</td>
<td>$24,290</td>
<td>$26,101</td>
<td>$28,403</td>
</tr>
<tr>
<td>All Other</td>
<td>8,433</td>
<td>7,294</td>
<td>6,857</td>
<td>9,460</td>
<td>11,177</td>
</tr>
<tr>
<td><strong>TOTAL EXPENSE</strong></td>
<td><strong>$29,914</strong></td>
<td><strong>$30,583</strong></td>
<td><strong>$31,147</strong></td>
<td><strong>$35,561</strong></td>
<td><strong>$39,580</strong></td>
</tr>
</tbody>
</table>

---

1. Funds derived from sale of research by-products.
2. Does not include University Seed Grants or Research Challenge Fund.
Program Statement Summary

The Ohio Agricultural Research and Development Center requests $51,577,292 in line-item support from the State of Ohio for the 1989-91 biennium. The request includes funding required to maintain ongoing high-priority research activities at current levels and increased funding for program enhancement of continuing and new research thrusts. Activities at the Center already have been initiated to accommodate several new research programs, such as biotechnology for plant and animal agriculture and forestry; development of integrated technology systems for food and fiber production and related post-harvest technology; and research on conservation, preservation, and effective utilization of soil, water, and other natural resources. However, existing research commitments and limited resources will not permit reaching effective operational levels in these areas of research or to addressing new national and State issues such as water quality, farm profits, diet and health, and biotechnology in food and agriculture.

THE OHIO STATE UNIVERSITY
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

SUMMARY OF STATE APPROPRIATIONS
1989-91 BUDGET REQUEST

<table>
<thead>
<tr>
<th>Uses</th>
<th>Actual 1987-89</th>
<th>Projected 1989-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE BUDGET</td>
<td>$38,692,642</td>
<td>$51,577,292</td>
</tr>
<tr>
<td>USES: Operations</td>
<td>31,092,642</td>
<td>33,357,903</td>
</tr>
<tr>
<td>(1) Current New Programs Underway</td>
<td>7,600,000</td>
<td>8,166,315</td>
</tr>
<tr>
<td>(2) New Scientific Priorities</td>
<td>0</td>
<td>10,053,074</td>
</tr>
<tr>
<td>TOTAL USES</td>
<td>38,692,642</td>
<td>51,577,292</td>
</tr>
</tbody>
</table>

(1) Basic Science & Biotechnology
Integrated Technology Systems
Natural Resources Conservation
Energy Systems
Domestic & Foreign Market Development
Consumer Needs

(2) Agricultural Profitability
Water Quality
Food Processing, Marketing and Safety
Biotechnology in Food and Agriculture
New Products from Agricultural Systems

With Cooperative Extension
Community Development & Economic Revitalization
Family Strengths
Youth Development
Program Statement

The Ohio Agricultural Research and Development Center's current 1987-89 biennial operating budget amounts to $61,730,000, of which $38,692,642 were State appropriated. The improved operating budgets over the past four years have permitted the Center to make significant accomplishments in both its plant and animal research programs. Several key faculty and staff members were hired to initiate research in high-priority areas, redirecting research efforts toward the new areas described above in the Program Statement Summary. This work has increased the scientific output of the Center by 36 percent, much of this in areas that clearly contribute to the highest priority research--rapid advancement of agricultural efficiency.

The 1989-91 biennial operating budget for the Ohio Agricultural Research and Development Center is projected to total $35,561,000 for the first year and $39,580,000 for the second year. To continue these research initiatives and move forward with the new efforts described below, which have come from the Ohio 21 program, the Center requests increases in State appropriations of $4,295,000 for the first year of the biennium, and $8,198,000 for the second year. The proposed increases in the operating budget will be used to maintain new equipment and two new buildings which were completed during 1987. However, the largest portion of the new funding will go for an increase in new programs underway, including the biotechnology programs. The new priority areas of research total $10,053,074 for the 1989-91 biennium. The eight new research initiatives briefly described below document the scientific areas to be covered and define the relationship to the Ohio Cooperative Extension Service.

Key Issues and Priority Areas

The following plan establishes the direction of the research programs of the Ohio Agricultural Research and Development Center (OARDC) and the adjunct educational programs of the Ohio Cooperative Extension Service (OCES). Summaries for each of eight major areas of emphasis outline activities designed to ensure that Ohio will remain a strong and competitive factor in U.S. and world agriculture for the next decade and into the 21st century. These priorities address initiatives important to the citizens of Ohio, and build on the strengths of the College of Agriculture and several sister colleges within the University. Concomitantly, they will improve the delivery of services by providing a much closer alignment of scientific research OARDC reporting and the Cooperative Extension Service's initiatives.

Using funding from Ohio 21, The Ohio State University installed state-of-the-art equipment and updated several laboratories for research scientists. Most of those initiatives were in support of scientific endeavors extending from molecular biology to economic theory. To follow up on these beginnings, it now is necessary to continue support of those
programs and, with new projects, to harness the negative impact of 40 years of dramatic increase in agricultural technology with new information gained through experimentation. We now need to implement those projects which could help us solve such problems as water contamination from herbicides and pesticides and food oxidation.

An Agenda for the Future of Ohio Agriculture

AGRICULTURAL PROFITABILITY

Critical to the future of Ohio agriculture is efficiency in agricultural technology, financial management, farm marketing, farm size, utilization of new genetic resources in plants and animals, and waste management. Attention must be given to sustainable agriculture, new crops, and alternative farm enterprises to improve financial survival and increase profits. The potential for profit in a global economy hinges on an economically efficient U.S. production and marketing system and supportive agricultural, macroeconomic, and international trade policies. The areas of leadership in research existing in Ohio are: world trade, farm crises abatement, low-input agriculture, and biological productivity of plants and animals. The research to be pursued includes:

*Establishing linkages among national agriculture policies; world, national, and State trading positions with profitability and productivity.

*Establishing systems for rapid delivery of information on linkages in national agriculture policy and world trading position.

*Determining the role of marginal cost and asset positions in farm income crises management and sustaining agricultural productivity.

*Determining efficiency of production management by incorporating decision/risk models, a total farm approach, and impact assessment of new technologies.

*Improving genetic resources in plant/animal systems.

*Identifying and evaluating alternative production systems and practices.

*Developing new and improved plant and animal protective systems, pest management, vaccines and biological control agents, and crop protection agent delivery systems for improved environmental/health costs.

*Enhancing on-farm profitability by developing predictive assessment models for a sustainable agriculture; new enterprises, markets, and cropping systems.
WATER QUALITY

The program will focus on the preservation and enhancement of Ohio's surface and ground water resources to provide safe drinking water in rural and urban areas, and clean water for industrial use, parks and recreational areas, wildlife habitats, and wetland ecosystems.

The quality of water is a result of a number of complex biological, chemical, and physical interactions which occur at the soil-water, sediment-water, and air-water interfaces. These interactions are integral components of the processes of erosion and sedimentation, and have direct impact on the fate of nutrients, pesticides, and agricultural, municipal, and industrial wastes introduced to the soil-water system. Research must be undertaken on several levels--the laboratory, greenhouse, small-plots, and watershed--to translate our mechanistic laboratory observations into large-scale, real-world solutions.

For water-quality research, the appropriate field scale is one that encompasses natural hydrologic boundaries--the subwatershed. Subwatersheds representing major cropping systems should be established on several soil associations with contracting hydrologic properties and instrumented to monitor and sample precipitation, runoff, and percolation. These systems should be in place for at least 10 years to cover the range of climatic conditions likely to be encountered and ensure that the system is at or near equilibrium. These watersheds become the outdoor laboratories in which scientists from the various disciplines can test their models and from which, in time, the water quality questions facing agriculture can be answered with confidence. Ohio has the research scientists to lead the nation in this effort but needs major support elements to develop interdisciplinary research programs.

Present expertise for scientific exploration of the water, soil, and plant production interactions is distributed interdepartmentally, and this program would bring together experimental scientists investigating drainage systems, ground and surface water movement, soil chemistry, soil structure, pesticide assessment, and food chain kinetics. The comprehensive nature of the University provides the interdisciplinary resources necessary for the success of this effort.

FOOD PROCESSING, MARKETING, AND SAFETY

Food processing is a growing industry in Ohio. While farm sales of products for U.S. food total $1.8 billion annually, the value additions in processing raise this to a value of sales equaling $18 billion. Ohio's food products are marketed without many real connections between the food producers and consumers. Consequently, Ohio's agriculture is vulnerable to increasing risks from choices in the domestic market.

The food processing industry will benefit from basic research programs for improving food quality, packaging, and safe delivery of a
food supply to the consumer. Reorganization of the research and teaching efforts in the College of Agriculture is now underway in order to direct the scientific effort into goal-oriented science and engineering units to meet the basic research needs of Ohio's food industry. Scientific groups providing expertise for research on food quality, food safety, and food mechanics include post-harvest physiology, enzymology, the biochemistry of plant wounds, meat physiology, dairy technologies, cereal chemistry, oil seed technology, and physical properties and fluid mechanics.

Research will be targeted to increase the amount of value added through innovative processing and packaging of food products in Ohio. We will also focus on the quality of food products, and develop and evaluate techniques for monitoring food safety from microbiological and toxicological perspectives.

BIOTECHNOLOGY IN FOOD AND AGRICULTURE

The biotechnology programs established with Ohio 21 funding must be continued, particularly in research. They are conducted in collaboration with the Ohio State Biotechnology Center. Scientists in animal and plant research intend to move forward and support existing and new agricultural research programs through the use of biotechnology. In the animal sciences, research will lead to identification of methods to promote faster growth, improve commodity quality, increase disease resistance, and enhance reproductive viability and productivity. Examples of specific investigations include the determinant genes regulating growth and development, pituitary hormones, uterine proteins, fetal development, nutrient utilization, virulent agents, immunogenetic factors for vaccine production, and toxicity markers.

Advances in the plant sciences will lead to the development of superior varieties of plants and microbes and can provide knowledge about the interactions of molecular structure and significant traits such as yield, disease resistance, herbicide resistance, and crop quality. Examples of specific investigation include the interaction of plants with both beneficial and disease-causing microbes, photosynthetic mechanisms, genetic reactions to growth regulators and herbicides, environmental stress responses, plant growth, and plant reproduction.

NEW PRODUCTS FROM AGRICULTURAL SYSTEMS

Research needs to be directed toward the farm family and how they can effectively seek alternative sources of income from marketing current products in an alternative manner, new uses of current products, or new products not currently made from agricultural commodities. Scientists will seek to identify non-food uses for Ohio's farm and forest commodities which are, or will be, economically feasible in the long run on the basis of genetic abilities and profitability. The benefits are improved utilization of agricultural land in Ohio, increased financial stability for farmers, decreased dependence upon federal subsidies, and a reduction in commodities imported into Ohio. The research teams will examine the potential benefits and costs to an Ohio farmer of producing
new or alternative crops as a substitute for traditional farm commodities. Other work to be done includes the study of the existing chemistry of current Ohio products for the purpose of inventing products for commercial use such as stock for plastics and more efficient biological systems for fermentation energetics and pharmaceuticals. Several teams of scientist are prepared to enter this area with expertise in biochemistry, chemical engineering, genetic engineering, plant and animal genetics, farm management, and economic theory of commodity marketing.

Research Priorities with Cooperative Extension

COMMUNITY DEVELOPMENT AND ECONOMIC REVITALIZATION

Revitalizing rural America is a major program goal. It is dependent on the timely delivery of information from OARDC to the Ohio Cooperative Extension Service (OCES). The OARDC and OCES educational programs will result in economic development, including the creation of off-farm jobs with entrepreneurial and small business management education. Programs will be focused on the follow-through of the community's economic development plan. Related local educational programs by OCES on essential public services include solid waste and wastewater disposal and water supply quality. The research phase of this initiative will be extensively integrated with the Extension's information delivery system.

FAMILY STRENGTHS

Programming will focus on family economics and the physical and emotional well-being of members of families. Educational priorities include family stability, parent education, managing family resources, goal setting and decision-making, balancing work and family, and improving health through nutrition and life-style practices. The OARDC will plan research and educational programs with OCES which will help individuals, families, and communities identify the obstacles to improved productivity and develop strategies to attain optimal growth and satisfaction. Studies on assistance will be focused on the critical transitional phases in individual and family development.

YOUTH DEVELOPMENT

The direction of the youth development program for the future will be on positive living skills, decision-making skills, communication skills, and leadership skills. Through a focus on science and technology, youth will develop technical skills as a part of their total education and career exploration for the future. Program issues include career exploration, citizenship, communication skills, personal development, practical skills for living, and social development.
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Ohio Cooperative Extension Service

Budget Statement (in thousands)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>$10,321</td>
<td>$10,390</td>
<td>$10,598</td>
<td>$10,810</td>
<td>$11,026</td>
</tr>
<tr>
<td>State</td>
<td>9,965</td>
<td>11,224</td>
<td>11,453</td>
<td>14,255</td>
<td>16,253</td>
</tr>
<tr>
<td>County</td>
<td>8,839</td>
<td>9,164</td>
<td>9,531</td>
<td>9,912</td>
<td>10,308</td>
</tr>
<tr>
<td>Private</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
<td>428</td>
<td>486</td>
<td>486</td>
<td>486</td>
<td>486</td>
</tr>
<tr>
<td>TOTAL OPERATING INCOME</td>
<td>$29,553</td>
<td>$31,264</td>
<td>$32,068</td>
<td>$35,463</td>
<td>$38,073</td>
</tr>
</tbody>
</table>

Operating Expense

| Personnel         | $25,142        | $26,574           | $27,258 | $30,144 | $32,362           |
| All Other         | 4,411          | 4,690             | 4,810   | 5,319   | 5,711             |
| TOTAL EXPENSE     | $29,553        | $31,264           | $32,068 | $35,463 | $38,073           |

Program Statement Summary

The Ohio Cooperative Extension Service's programs on agricultural industry, home economics and family living, community and natural resource development, and 4-H youth development provide instruction and assistance to nearly six million Ohio residents each year. To continue and update educational programs, OCES requests funding of $30,507,692 for the biennium.

Program Statement

As we approach the 1990s, the magnitude and dynamics of technological, environmental, social, and occupational concerns demand lifelong learning by every individual in Ohio. People in both the public and private sectors, rich and poor, need prompt access to new knowledge and research results. They need reliable and unbiased information on
critical issues in order to realize their potential and remain in the mainstream as effective citizens. The Ohio Cooperative Extension Service provides programs to meet those needs.

**Ohio Cooperative Extension Service**

The Ohio Cooperative Extension Service is a continuing education program established by Ohio law in 1909 to serve the needs of Ohio's citizens in agriculture, home economics, natural resources, and related subjects. Faculty of the Ohio Cooperative Extension Service (See Table 1) teach off-campus educational programs in all counties of the State as a part of The Ohio State University. The colleges of Agriculture, Home Economics, Biological Sciences and Veterinary Medicine provide major technical research. Extension's educational programs annually reach nearly six million adults and young people. Major programs focus on agricultural industry, home economics and family living, community and natural resource development, and 4-H youth development.

The goal of the Extension's agricultural industry programs is to assist farm families and agri-business in becoming more competitive, profitable, and environmentally acceptable, thus creating a healthier agriculture and rural Ohio. Agricultural industry extension programs, utilizing 22 computer programs, have assisted Ohio's 87,000 farmers to improve their profitability significantly. Educational programs in cooperation with agri-business have nearly tripled the value of Ohio's agricultural products ($3.9 billion in farm sales). With the assistance of trained technicians, in 1987 more than 1,800 farmers utilized the FINPACK financial management computer program to evaluate their farming operations. Other agricultural industry programs include: 1) soil and water conservation programs targeted toward farmers and agri-business leaders; 2) teaching safe and proper use of pesticides to more than 9,000 pesticide applicators; and 3) on-farm demonstrations illustrating conservation tillage-fertility, crop varieties and pest control, livestock production, and management practices.

Extension home economics programs focus on the economic, physical, and emotional well being of families. In 1987, OCES provided consumers with information on managing resources, coping with change, and strengthening family relationships. The home economics program trained more than 300 budget counselors in 11 urban counties to work with financially troubled families. A 24-county nutrition educational program targeted at families with young children resulted in marked improvements in food preparation and management skills of almost 6,000 low-income participants. In addition, 20,536 youth improved their dietary intakes as a result of a nutrition program targeted to low-income youth. Nearly 12,000 members of Extension homemakers' clubs in 73 counties studied topics including water quality, drug and diet interactions, and leadership development.

The Community and Natural Resource Development (CNRD) program focuses on economic development with retention and expansion (R&E) of businesses and industry as one strategy for rural revitalization.
than 30 counties in Ohio have completed an R&E business visitation program and a strategic plan for economic development. Resources will be committed to providing educational programs to implement these economic development plans and others as they are developed. The CNRD has assisted small and home-based businesses through workshops, the Home Business Digest newsletter, and a series of fact sheets; additional educational materials are being developed. Other emphases include conducting educational programs to assist in protecting groundwater and providing assistance to farmers in transition to other full-time jobs.

The 4-H youth program focuses on helping youth develop into successful, productive, self-directed members of society. The 4-H program serves 140,406 members; 17,347 members participated in the camping program last year. Volunteer adult leaders total 18,544; 7,549 junior leaders also provide services to 4-H. Program priorities include decision-making skills with emphasis on commitment and responsibility, positive living skills, leadership development and training, communication skills, economic education and career exploration, and technical knowledge and skills. The 4-H project is the unique tool for providing young people with real-life experiences in goal setting, decision making, and work ethics.

The Goals Underlying This Budget Request Are Three-Fold:

1) To meet emerging new program needs as requested by Ohio’s citizens - and identified in our goal-setting program;

2) To challenge present faculty and staff members to develop creative programs as they have done in past years -- with guidelines from committees of clientele at the county, district, and state levels; and

3) To improve information delivery systems equipment and to keep abreast of modern technology.

To attain the first and second goal, OCES must continue selected high priority programs in agriculture, home economics, community and natural resource development, and 4-H youth development, as well as respond to new program needs. Following is a listing of our highest priorities.

Highest Priorities

Agricultural Profitability
   -Financial management
   -Farm marketing
   -Waste management
   -New crops and alternative farm enterprises

Water Quality
   -Safe water for families
   -Non-point pollution of water
   -Rural home and enterprise wastewaters
Community Development and Economic Revitalization
- Small business management education
- Retention and expansion of the community economic base
- Community leadership

Family Strengths
- Managing family resources
- Balancing work and family
- Improving health through nutrition

Youth Development
- Positive living skills
- Communication skills
- Leadership skills

Food Processing, Marketing, and Safety
- Packaging
- Safe delivery of food supply

New Products from Agricultural Systems

Biotechnology in Food and Agriculture (In collaboration with the Ohio State Biotechnology Center)

Meeting the information delivery goal will require additional microcomputers for departments on campus as well as at the county level, computer software, and modern video teaching equipment. Such a system will enable faculty members to provide cost-effective ways of fulfilling the educational mission. This change in thrust will involve more county agents in teaching groups, while specialist support will be utilized through direct satellite broadcasts, videotapes, teleconferences, and software development.

New priorities and programs such as those identified in the preceding sections of this budget request require additional funding. In order to address current and emerging issues facing Ohio’s citizens, the Ohio Cooperative Extension Service requests State funding of $30,507,692 for the 1989-91 biennium. Nationally, Cooperative Extension Service programs receive 48.3 percent of their funds from the state; Ohio contributed 35 percent of total OCES funds in 1987-88 (Table 2). Because Extension programs contribute to the improvement of the Ohio economy as a whole, OCES requests that the State provide a higher percentage of total OCES support.

The Ohio Cooperative Extension Service recognizes the need to keep salary increases for existing faculty and staff members consistent with the rest of the University. This proposed budget will permit the OCES to remain competitive and retain outstanding faculty and staff members, and, at the same time, to meet the new needs expressed by clientele.
Approximately 35 OCES faculty members have retired during the last year, partly as a result of the early buyout program. The OCES has used this opportunity to effect a permanent reduction in faculty numbers. Table 1 illustrates that total OCES faculty members have decreased by 29 percent during the last nine years. As a result, some faculty members at the county level are responsible for conducting programs in two counties. This arrangement will be facilitated by adding non-tenured positions to assist in program delivery. This change in staffing patterns will provide a more efficient and cost-effective system of delivering programs in the field.

1989-91 BIENNIAL STATE BUDGET
OHIO COOPERATIVE EXTENSION SERVICE

SUMMARY OF STATE APPROPRIATIONS
1989-91 BUDGET REQUEST

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>$11,224,400</td>
<td>$11,453,200</td>
<td>$11,453,200</td>
<td>$14,254,924</td>
<td>$25,708,124</td>
</tr>
<tr>
<td>Increased Costs*</td>
<td>801,724</td>
<td>997,844</td>
<td>1,799,568</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strengthened &amp; New Programs</td>
<td>$2,000,000</td>
<td>$1,000,000</td>
<td>$3,000,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$14,254,924</td>
<td>$16,252,768</td>
<td>$30,507,692</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\* Calculated at 7% per year
Table 1. Ohio Cooperative Extension Service Faculty (FTE)

<table>
<thead>
<tr>
<th></th>
<th>80-81</th>
<th>83-84</th>
<th>84-85</th>
<th>85-86</th>
<th>86-87</th>
<th>87-88</th>
<th>88-89*</th>
<th>Percent Decrease From 81 to 89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td>104</td>
<td>87</td>
<td>79</td>
<td>75</td>
<td>84</td>
<td>67</td>
<td>72</td>
<td>(31%)</td>
</tr>
<tr>
<td>District Centers</td>
<td>56</td>
<td>42</td>
<td>38</td>
<td>34</td>
<td>36</td>
<td>32</td>
<td>35</td>
<td>(38%)</td>
</tr>
<tr>
<td>County Agents</td>
<td>278</td>
<td>248</td>
<td>240</td>
<td>248</td>
<td>244</td>
<td>212</td>
<td>205</td>
<td>(26%)</td>
</tr>
<tr>
<td>TOTAL</td>
<td>438</td>
<td>377</td>
<td>357</td>
<td>357</td>
<td>364</td>
<td>311</td>
<td>312</td>
<td>(29%)</td>
</tr>
</tbody>
</table>

* As of 7/1/89

Table 2. Sources of Funds - Cooperative Extension Services

<table>
<thead>
<tr>
<th></th>
<th>Federal</th>
<th>State</th>
<th>County</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio (FY 87-88)</td>
<td>34.4</td>
<td>35.4</td>
<td>28.7</td>
<td>1.5</td>
</tr>
<tr>
<td>National Average (FY 87-88)</td>
<td>30.0</td>
<td>48.3</td>
<td>18.4</td>
<td>3.3</td>
</tr>
<tr>
<td>Ohio (proposed 89-90)</td>
<td>30.5</td>
<td>40.2</td>
<td>27.9</td>
<td>1.4</td>
</tr>
<tr>
<td>Ohio (proposed 90-91)</td>
<td>29.0</td>
<td>42.7</td>
<td>27.1</td>
<td>1.3</td>
</tr>
</tbody>
</table>
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Medical Clinical Teaching and Research

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Continuation Funding</td>
<td>$15,353,540</td>
<td>$16,721,560</td>
</tr>
</tbody>
</table>

Program Statement Summary

The Ohio State University Hospitals was established by the Ohio General Assembly as the primary teaching and research laboratory for The Ohio State University College of Medicine. Its primary purpose is to provide a patient care facility in which medical, as well as other healthcare students, may learn the practical or applied aspects of their professions. Essential to the success of this mission are the associated functions of research and clinical service. The Ohio State University is the flagship institution for the State of Ohio and over 50 percent of The University Hospitals' patients come from outside Franklin County to receive specialized treatment. Patient fees are set at the lowest possible rate to cover the total cost of patient care.

The General Assembly has traditionally provided funds for teaching and research. These educational costs are estimated to exceed $49 million per year by fiscal year 1991. With the continued changes in funding for teaching hospitals, it is now imperative that the State of Ohio more fully fund the teaching and research costs of University Hospitals. Funding of $32,075,100 is requested for the coming biennium.

Program Statement

The Ohio State University Hospitals has undertaken a careful examination of its total medical education costs. Included in this request is a Summary of Direct and Indirect Teaching Costs for the 1989-91 biennium which resulted from these efforts.

The Indirect Medical Education Costs were computed using both the federal formula as well as the results of the Cameron Study which recently was completed for the State of California. The Cameron Study was sophisticated in its approach to measuring the indirect costs in medical education, and the financial staff of The Ohio State University Hospitals would be pleased to discuss these results should questions arise. In addition to the indirect costs of medical education, the direct costs for our allied health programs and clinical operations were added to determine the total costs of health-related education at University Hospitals.
Once the total costs of direct and indirect medical education were determined (approximately $47 million for fiscal 1990 and $49 million for fiscal year 1991), they were compared with the direct sources of funding, Medicare and Medicaid programs. Their reimbursement is shown on the attached summary as well. The direct reimbursement sources total $22,520,000 for fiscal year 1990 and $23,645,000 for fiscal year 1991. Both costs and reimbursements were inflated 5 percent for fiscal 1991 as compared with fiscal year 1990.

Please note the shortage of sources versus costs of $24,258,000 in fiscal year 1990 and $25,471,000 in fiscal year 1991.

Given the recent reductions by the federal government for reimbursement of indirect medical education costs, it is very important that the State of Ohio begin to increase its funding. Other third-party payers are informing the Hospitals that medical education costs are not their patients' concern, and they are stating that education is a societal issue. While we at The Ohio State University Hospitals do not agree with this position, it is important that the State of Ohio recognize these negotiations are ongoing and that major teaching hospitals are facing significant challenges as we negotiate against community hospitals. It is obvious that the education of interns and residents, as well as paramedical professionals, is in everyone's best interest and that the issue of funding has not yet been settled.

Because of the current financial status of Ohio, we do not expect the State to pick up all of this shortfall in one biennium. We do hope, however, that the State will make an effort over several biennia to close the gap so that education for future physicians and other health care professionals in this State is not in jeopardy.
### SUMMARY OF DIRECT AND INDIRECT TEACHING COSTS

**THE OHIO STATE UNIVERSITY HOSPITALS**

**BUDGET REQUEST FOR 1989 - 1991**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameron Method</td>
<td>$31,853,000</td>
<td></td>
</tr>
<tr>
<td>Federal Formula</td>
<td>27,269,000</td>
<td></td>
</tr>
<tr>
<td>Average Indirect Medical Education Costs</td>
<td>$29,561,000</td>
<td>$31,039,000</td>
</tr>
<tr>
<td>Clinical Support of Allied Health Programs</td>
<td>5,692,000</td>
<td>5,976,000</td>
</tr>
<tr>
<td>Other Direct Costs of Clinical Operations</td>
<td>11,525,000</td>
<td>12,101,000</td>
</tr>
</tbody>
</table>

| Total Direct and Indirect Costs of Medical Education | 46,778,000 | 49,116,000 |

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicare Reimbursement for Direct Education</td>
<td>$7,476,000</td>
<td>$7,849,000</td>
</tr>
<tr>
<td>Medicare Reimbursement for Indirect Education</td>
<td>7,302,000</td>
<td>7,667,000</td>
</tr>
<tr>
<td>Medicaid/Welfare Payment for Education</td>
<td>7,424,000</td>
<td>8,129,000</td>
</tr>
</tbody>
</table>

| Direct Reimbursement Sources | 22,520,000 | 23,645,000 |

| Shortage | $24,258,000 | $25,471,000 |
The colleges of Dentistry and Veterinary Medicine have experienced dramatic increases in their clinical costs. Veterinary Medicine's cost of purchasing animals for teaching purposes has risen dramatically with the lack of availability of lower-cost pound animals. Dentistry is incurring additional expenses for the purchase of masks, gloves, and other consumable sterile supplies to comply with recently enacted legislation that is designed to help control the spread of infectious diseases. These developments, when combined with inflationary increases in other areas, place a burden on patient fees that is unrealistic inasmuch as the instructional mission requires large numbers of diverse patients.

Program Statement

The health sciences colleges are in a unique position. They must provide and operate educational facilities where patient care is provided as a necessary by-product of required student training. The costs of maintaining and operating these facilities are very high -- obviously higher than a non-teaching patient-care facility. The facilities offer two services: training professional students for the future of Ohio, and offering care to the citizens of Ohio. Even though patients are charged for these services, the total costs of operating these educational facilities cannot be recovered through patient fees alone.

Services in these facilities are provided by advanced students who are supervised by faculty members. In such a setting, a greater commitment of time from the patient or client is required. In order for the educational goals of the clinics to be met, a diversity and large number of patients are needed. Therefore, fees have to be set at or below community rates so that appropriate numbers and types of patients for adequate training experiences can be attracted. This is absolutely vital so that graduates may enter into practice immediately upon obtaining the professional degree and license.

These educational facilities combine in one place the instructional, research, and service components of the University's mission. The
responsibilities of Dentistry's and Veterinary Medicine's faculty and staff members do not include providing patient care. They teach students, further the students' clinical experiences, and perform clinical research. In order to maintain these educational facilities, special subsidies continue to be needed for the clinical facilities of the colleges of Dentistry and Veterinary Medicine.

State support of these two clinics has not increased since fiscal year 1987. This lack of growth in the State subsidy has placed an excessive burden on patients' fees. As an example of increased costs for instruction and research, until recently the veterinary teaching hospital could purchase dogs from pounds for $20. The animals now must be purchased elsewhere for prices ranging from $75 to $300 per animal. Public concern about the spread of AIDS and other infectious diseases has resulted in legislation that requires increased safety measures by the dental clinic. The clinic is incurring an onerous rise in its costs principally due to expenditures for gloves, masks, and other consumable sterile supplies.

The University requests State support for the dental and veterinary medicine clinics of $1,276,000 in fiscal year 1990 and $1,370,000 in fiscal year 1991. These funding levels would help offset inflationary cost increases and help defray expenditures resulting from legislation and practices in disease control and animal use.
Arthur G. James Cancer Hospital and Research Institute

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$3,000,000</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>

Program Statement Summary

The Arthur G. James Cancer Hospital and Research Institute will be completed in late 1988. It will be a "state-of-the-art" facility for instruction, research, and service. Since it is a center for teaching and research, the Institute cannot be supported solely by revenue from patients. The Ohio State University requests $6 million for the 1989-91 biennium to finance the incremental costs of education and research.

Program Statement

Pursuant to the intent and appropriation from the Ohio General Assembly, construction of the Arthur G. James Cancer Hospital and Research Institute is nearing completion. It is anticipated that this facility will be operational during the 1988-89 academic year. In accordance with the legislative intent creating this facility, The Ohio State University is making every possible good-faith effort to establish an institute that will provide oncology-related teaching, research, and service programs to the citizens of Ohio heretofore unavailable except by traveling to Texas or New York. A consequence of establishing such a premier institute is the need for a separate funding base, at least during the developmental years. Therefore, The Ohio State University requests a line-item appropriation for the 1989-91 biennial budget, to provide for support of (1) the incremental teaching costs, (2) direct and indirect research-related costs, and (3) operational start-up costs.

With adequate support in its early stages of development, the Arthur G. James Cancer Hospital and Research Institute can become a premier facility that will provide the best possible educational, research, and service programs to the citizens of the State of Ohio. Once operational and reasonably established, such a facility will generate patient revenues and receive extramural grant support and endowments that will offset the need for separate State funds.
(1) **Incremental Teaching Costs**

**Support Requested:** ($1,000,000 per year)

The Arthur G. James Cancer Hospital and Research Institute will provide specialized educational and training programs to students and trainees in medicine, nursing, allied medical professions, psychology, social work, nutrition, dietetics, dentistry, optometry, pharmacy, veterinary medicine, and a host of other disciplines across the Ohio State campus. Approximately 3,000 students and trainees from Ohio State alone will gain cancer-specific educational experience at this facility.

However, it cannot be overlooked that potentially thousands of other students and trainees from health-care related organizations and educational institutions also will benefit from exposure to the unique programs that only a facility such as this can offer. Obviously, it is reasonable to anticipate that such an educational opportunity not only will assist in attracting highly qualified students and trainees, but also will serve as a tremendous asset in retaining these individuals as professional practitioners in the State of Ohio.

(2) **Direct and Indirect Research-Related Costs**

**Support Requested:** $1,000,000 (per year)

More effective diagnostic and treatment procedures for cancer patients can evolve only as a result of strong basic research (laboratory studies) and clinical research (tested applications of new knowledge) programs. To be at the forefront of oncology-related educational, research, and service programs, investments must be made in technology as well as in the recruitment of additional scholars and support staff members. Of course, successful efforts in the development of basic and clinical research programs result in additional extramural funding, which in turn assists in the continuing support of such programs.

(3) **Operational Start-up Costs**

**Support Requested:** $1,000,000 (per year)

As an independent institute, the Arthur G. James Cancer Hospital and Research Institute will require a funding base to begin operation. Although $1,000,000 has been appropriated to support operational costs for the period July 1988 through June 1989, this amount is far from adequate considering a projected patient revenue deficit of $9.5 million in the first year of operation, and $7.2 million in the second. Although patient revenues will ultimately support a large portion of the operational costs, such revenues will not be realized until the facility has been operational for a reasonable time. Funds to support initial staffing, systems, supplies, and services costs must be available early on if this facility is even to become operational.
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Developmental Education

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus Campus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Request</td>
<td>$184,000</td>
<td>$192,700</td>
<td>$376,700</td>
</tr>
<tr>
<td>Regional Campuses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Request</td>
<td>$ 77,447</td>
<td>$ 86,554</td>
<td>$164,001</td>
</tr>
<tr>
<td>Total University</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Request</td>
<td>$261,447</td>
<td>$279,254</td>
<td>$540,701</td>
</tr>
</tbody>
</table>

Program Statement Summary

Developmental Education will continue its tradition of giving priority for service to specially recruited minority students with economic and basic skills deficiencies. During the next biennium, Developmental Education wants to expand its services to a wider range of students entering the University with limited skills. The budget request for $376,700 for the Columbus campus and $164,001 for the regional campuses for the biennium would enable more students enrolled at Ohio State who are in need of basic skills development to be reached by special tutoring and peer counseling.

Program Statement - Columbus Campus

The Office of Developmental Education on the Columbus campus has historically given priority to minority students with special academic and social needs. As the Ohio Board of Regents' report on access and success indicates, we must continue and increase our efforts in the area given current demographic data. Special attention must be given to Black and Hispanic students to reverse the national decline in college attendance by students from these groups.

Ohio State has in place a Young Scholars Program designed to increase minority participation in higher education beginning with students in middle school. This effort has the potential not only of increasing minority student enrollment at Ohio State, but also at other institutions of higher learning in Ohio. This increase in minority student enrollment could have major impact on the need for academic and
social support services provided by the Office of Developmental Education.

The American College Test statistical data reveal that 2058 students with a composite American College Test score of 20 or below matriculated on the Columbus campus during autumn quarter of 1987. Among these students were 584 with scores between 1 and 15. Each of these students might well be judged to need assistance to “overcome any deficiencies they may have in their preparation for post-secondary instruction,” as stated in the legislation establishing a program for developmental instruction at State-assisted institutions in Ohio.

In an effort to meet the needs of all our students, it is our judgment that with adequate financial resources, we can become more inclusive without diminishing the services to the approximately 900 specially recruited minority students who have the highest priority for the use of limited Developmental Education funds. We propose to expand these services during the next biennium to a wider range of students entering the University with limited skills rather than focusing almost entirely on minority students.

The proposed budgets would enable the University to expand its program to approximately 2,000 majority students in University College with similar needs. We were not able to address these needs during the current biennium because of limited funding.

The requested increase in funding is directed toward the following, in order of priority:

A) Expand services provided by the Learning Skills Program to more students. The American College Test Class Profiles for Ohio State freshmen have consistently shown that 37 to 39 percent of the students responding expressed a need for help in reading and study skills. Recently, students with a score of 16 or below on the social studies component of the American College Test have been invited to take a reading test during new-student orientation. This assessment revealed that we have 1110 re readers below the college freshman level than the Learning Skills Program can accommodate. The Reading Program assisted 461 students during the 1987-88 academic year because of limited staff. Our request for Learning Laboratories will provide assistance for an additional 500 students in this area.

B) Strengthen the current tutoring and peer counseling programs. The requested amounts would provide an opportunity for more students to receive tutorial assistance in basic mathematics, basic English, and related areas.

C) Increase the Developmental Education staff by three full-time equivalent staff members to accommodate the additional students who need to be served by the program. We will maintain the current ratio of Graduate Administrative Associate positions to full-time professional staff members.
It is proposed that this modification of the composition of students served will begin with the next biennium, which will coincide rather closely with the physical relocation of the program.

Our current resources are inadequate to undertake these increased responsibilities. Developing access to the University as well as access to its curricula must continue to be emphasized strongly. The Developmental Education Program is an important component of this institution-wide and Statewide focus on improving access.

Developmental Education - Columbus Campus

1. Category of Expenditure

<table>
<thead>
<tr>
<th>Fiscal Year 1990</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
<tr>
<td>STATE</td>
</tr>
<tr>
<td>FEDERAL</td>
</tr>
<tr>
<td>INSTITUTIONAL</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>Academic Tutoring</td>
</tr>
<tr>
<td>Learning Labs</td>
</tr>
<tr>
<td>Other (academic advising and non-academic counseling)</td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

3350

1. Category of Expenditure

<table>
<thead>
<tr>
<th>Fiscal Year 1991</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
<tr>
<td>STATE</td>
</tr>
<tr>
<td>FEDERAL</td>
</tr>
<tr>
<td>INSTITUTIONAL</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>FUNDS</td>
</tr>
<tr>
<td>Academic Tutoring</td>
</tr>
<tr>
<td>Learning Labs</td>
</tr>
<tr>
<td>Other (academic advising and non-academic counseling)</td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

3450
Program Statement - Regional Campuses

It is apparent from the materials submitted by each regional campus that the demand for Developmental Education services will increase during the ensuing academic year and the subsequent biennium.

As the budget requests indicate, the Learning Laboratories and Tutoring Centers will continue to be the areas of emphasis on the regional campuses. With adequate funding, increased attention will be given to assisting area students in preparing themselves for a successful higher education experience. Inadequately prepared college-bound youths and mature persons matriculating in a university for the first time should be provided opportunities to develop skills basic to success in higher education. These campuses have experienced a modicum of success in the area of recruitment of minority students. Similar to the Columbus campus, the areas of minority recruitment and retention will be given high priority during the next biennium. It is from this vantage point the enclosed budgets are presented.

Developmental Education - Lima Campus

1. Category of Expenditure

<table>
<thead>
<tr>
<th>Fiscal Year 1990</th>
<th>TOTAL FUNDS</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>32,527</td>
<td>14,637</td>
<td>-</td>
<td>17,890</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>9,461</td>
<td>4,257</td>
<td>-</td>
<td>5,204</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TOTAL</td>
<td>41,988</td>
<td>18,894</td>
<td>-</td>
<td>23,094</td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

350

1. Category of Expenditure

<table>
<thead>
<tr>
<th>Fiscal Year 1991</th>
<th>TOTAL FUNDS</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>33,828</td>
<td>15,222</td>
<td>-</td>
<td>18,606</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>9,839</td>
<td>4,427</td>
<td>-</td>
<td>5,412</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TOTAL</td>
<td>43,667</td>
<td>19,649</td>
<td>-</td>
<td>24,018</td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

360
Developmental Education - Mansfield

1. Category of Expenditure

**Fiscal Year 1990**

<table>
<thead>
<tr>
<th>Category of Expenditure</th>
<th>TOTAL Funds</th>
<th>STATE Funds</th>
<th>FEDERAL Funds</th>
<th>INSTITUTIONAL Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>10,000</td>
<td>8,500</td>
<td>-</td>
<td>1,500</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>33,500</td>
<td>15,000</td>
<td>-</td>
<td>18,500</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>43,500</strong></td>
<td><strong>23,500</strong></td>
<td>-</td>
<td><strong>20,000</strong></td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

600

1. Category of Expenditure

**Fiscal Year 1991**

<table>
<thead>
<tr>
<th>Category of Expenditure</th>
<th>TOTAL Funds</th>
<th>STATE Funds</th>
<th>FEDERAL Funds</th>
<th>INSTITUTIONAL Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>10,500</td>
<td>8,500</td>
<td>-</td>
<td>2,000</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>35,175</td>
<td>16,175</td>
<td>-</td>
<td>19,000</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>45,675</strong></td>
<td><strong>24,675</strong></td>
<td>-</td>
<td><strong>21,000</strong></td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

600
Developmental Education - Marion

1. Category of Expenditure

Fiscal Year 1990

<table>
<thead>
<tr>
<th>Category</th>
<th>TOTAL Funds</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>23,400</td>
<td>7,000</td>
<td>-</td>
<td>16,400</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>8,400</td>
<td>5,000</td>
<td>-</td>
<td>3,400</td>
</tr>
<tr>
<td>Other</td>
<td>5,000</td>
<td>-</td>
<td>-</td>
<td>5,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>36,800</strong></td>
<td><strong>12,000</strong></td>
<td>-</td>
<td><strong>24,800</strong></td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

200

1. Category of Expenditure

Fiscal Year 1991

<table>
<thead>
<tr>
<th>Category</th>
<th>TOTAL Funds</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>24,800</td>
<td>7,500</td>
<td>-</td>
<td>17,300</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>9,000</td>
<td>5,500</td>
<td>-</td>
<td>3,500</td>
</tr>
<tr>
<td>Other</td>
<td>5,500</td>
<td>-</td>
<td>-</td>
<td>5,500</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>36,300</strong></td>
<td><strong>13,000</strong></td>
<td>-</td>
<td><strong>26,300</strong></td>
</tr>
</tbody>
</table>

2. Number of Students to be Served (unduplicated annual count)

200
Comments:

In 1980, when Developmental Education (DE) funding was drastically reduced, former Chancellor Edward Q. Moulton outlined the procedure followed to distribute the DE appropriation. That procedure was based on ACT scores of incoming freshmen. Since 1980, many Ohio colleges have ceased using the ACT test. What is the current procedure being used to distribute the DE appropriation? Just as the subsidy formula system and line-item projects were sent around for review, the procedures for DE distribution need to be reviewed by all eligible institutions.

1. Category of Expenditure: Fiscal Year 1990

<table>
<thead>
<tr>
<th>Category of Expenditure</th>
<th>TOTAL FUNDS</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>16,265</td>
<td>10,158</td>
<td>-</td>
<td>6,107</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>19,849</td>
<td>12,901</td>
<td>-</td>
<td>6,948</td>
</tr>
<tr>
<td>Other*</td>
<td>13,555</td>
<td>-</td>
<td>-</td>
<td>13,555</td>
</tr>
<tr>
<td>TOTAL</td>
<td>49,669</td>
<td>23,059</td>
<td>-</td>
<td>26,610</td>
</tr>
</tbody>
</table>

*DE courses (non-college credit)

2. Number of Students to be Served (unduplicated annual count)

570


<table>
<thead>
<tr>
<th>Category of Expenditure</th>
<th>TOTAL FUNDS</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>17,259</td>
<td>10,767</td>
<td>-</td>
<td>6,492</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>21,040</td>
<td>13,675</td>
<td>-</td>
<td>7,365</td>
</tr>
<tr>
<td>Other*</td>
<td>14,368</td>
<td>-</td>
<td>-</td>
<td>14,368</td>
</tr>
<tr>
<td>TOTAL</td>
<td>52,667</td>
<td>24,442</td>
<td>-</td>
<td>28,225</td>
</tr>
</tbody>
</table>

*DE courses (non-college level)

2. Number of Students to be Served (unduplicated annual count)

580
### Developmental Education - ATI

1. **Category of Expenditure**

   **Fiscal Year 1990**

<table>
<thead>
<tr>
<th>Category</th>
<th>TOTAL FUNDS</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>20,000</td>
<td>5,000</td>
<td>-</td>
<td>15,000</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>34,000</td>
<td>2,000</td>
<td>2,000</td>
<td>30,000</td>
</tr>
<tr>
<td>Other</td>
<td>6,000</td>
<td>-</td>
<td>-</td>
<td>6,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>60,000</strong></td>
<td><strong>7,000</strong></td>
<td><strong>2,000</strong></td>
<td><strong>51,000</strong></td>
</tr>
</tbody>
</table>

2. **Number of Students to be Served (unduplicated annual count)**

   400

1. **Category of Expenditure**

   **Fiscal Year 1991**

<table>
<thead>
<tr>
<th>Category</th>
<th>TOTAL FUNDS</th>
<th>STATE FUNDS</th>
<th>FEDERAL FUNDS</th>
<th>INSTITUTIONAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Tutoring</td>
<td>24,000</td>
<td>6,000</td>
<td>-</td>
<td>18,000</td>
</tr>
<tr>
<td>Learning Labs</td>
<td>40,000</td>
<td>3,000</td>
<td>2,000</td>
<td>35,000</td>
</tr>
<tr>
<td>Other</td>
<td>7,000</td>
<td>-</td>
<td>-</td>
<td>7,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>71,000</strong></td>
<td><strong>9,000</strong></td>
<td><strong>2,000</strong></td>
<td><strong>60,000</strong></td>
</tr>
</tbody>
</table>

2. **Number of Students to be Served (unduplicated annual count)**

   450
Labor Education and Research Service

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$2,139,957</td>
<td>$2,182,038</td>
</tr>
</tbody>
</table>

Program Statement Summary

In 1987-88, The Ohio State University's Labor Education and Research Service (LERS), a nationally acclaimed program, conducted 229 programs for 8,301 students. These numbers represent a gradual growth since the 1981-82 low year. It is apparent with the changing nature of labor-management relations and Ohio's changing economy that a comprehensive primary research program is needed by both labor and management. A program to design this type of research was requested for the present biennium but not funded. The need for such a program is now critical. Over the years, LERS has successfully integrated itself into the six other faculties of the College of Business and can meet this research need together with its sister Faculty of Management and Human Resources. To meet this added demand, $4,321,995 is requested for the biennium.

Program Statement

The Ohio State University's Labor Education and Research Service (LERS) continues to fulfill its mission of providing non-credit educational programs for Ohio workers. With the cooperation of the Ohio labor movement, LERS conducted 229 programs with a total enrollment of 8,301 students. These figures are presented in Table I along with those of the preceding eleven fiscal years.
The LERS has continued its policy of planning programs with all levels of Ohio labor. Programs cover a wide range of topics. The most popular topics are those related to some aspect of collective bargaining: labor law; contract negotiations; grievance handling; and arbitration. The single most common program continues to be stewards’ training, which is a combination “Introduction to the Labor Movement” and “Grievance Handling” programs.

There has continued to be an emphasis on occupational safety and health education. The highlight of programs in this area is the annual week-long Workers’ Safety and Health Institute, which attracts over 200 Ohio workers each year. In the broad area of union leadership are programs such as the psychology of labor management relations, parliamentary procedure and effective communications. Finally, LERS continues to provide programs that allow Ohio’s union members to better understand the history of the labor movement and the relationship of labor to the economic and political systems.

Plant shutdowns, decline of basic industries, layoffs of employees in various occupations, and movement of plants to other states, are evidence of an unstable economy in the State of Ohio.

In addition, low productivity growth in the nation’s business and commerce has added to our difficulties. At the same time, the world’s major industrial nations, e.g., West Germany, Japan, Sweden, and Italy, have become significantly more aggressive in their production processes and marketing policies. At one time, the United States dominated in the production of automobiles, steel, tires, radios, and television sets. Today, other nations now are the leaders in these products as well as in the production of cameras, watches, musical instruments, motorcycles and bicycles, industrial machine tools, office copying equipment, and semiconductors for electronics, sport equipment, and toys.
It is clear that comprehensive initiatives are needed. We must increase our productivity. Waiting to see what will happen merely will continue our drift. Old ways simply will not do as other industrial nations continually expand their plant and productive bases. New ways are being tried but need to be researched to prove acceptability between labor and management.

Among the needed initiatives are: new product and service innovations, extensive investment in energy-efficient technologies and facilities, new skill training in all occupational levels, incentives for relocation to Ohio to create new employment growth areas, and greater cooperation among all the relevant actors (unions, management, academic institutions, and governmental agencies) to improve productivity. The requested levels of funding will enable LERS to undertake these initiatives.

With respect to worker-management cooperation, several attempts currently are underway in some private and public sector organizations to improve output, reduce adverse job actions such as strikes, and increase employee satisfaction and job security. These typically are referred to as Quality of Working Life (QWL), Quality Circles, and Joint Cooperation Programs. Some have involved unions such as United Steelworkers of America, Communications Workers of America, and United Auto Workers. Some of these efforts are very commendable and represent steps in the right direction, while others have circumvented the collective bargaining process causing further strife.

What is needed is careful, systematic study of these and other labor-management endeavors and dissemination of the lessons to others. Among the key questions to be studied are: How do such programs of cooperation begin? Under what conditions? How are they organized? How do they relate to the formal institutional union-management framework (the collective bargaining agreement and grievance procedures)? How effective are they in meeting their professed goals? What factors contribute to their overall successful functioning and/or demise? In what ways may their activities be improved?

To examine these and related questions and assure objectivity, multi-disciplinary research themes will be established. Each will be comprised of faculty members and graduate students drawn from both the faculty of Management and Human Resources and the Labor Education and Research Service of the College of Business. The Faculty of Labor Education and Research Service has, over the years, become an effective part of the College and enjoys full academic status equal to other faculties.

With the funding requested, research sites representing private and public sector organizations throughout the State of Ohio will be included for consideration. The full consent and support of management and union officials is, of course, essential prior to any research on our part. Recently, a demand for this information is becoming more apparent.
A longitudinal research approach spanning at least three to five years at each research site is recommended. Ideally, a cooperative relationship should be tracked from its inception to maturation. In this manner, relevant data may be collected prior to establishing a formal cooperative arrangement, thereby increasing productivity and employee well-being.

In this proposal, we recommend conducting longitudinal studies by the faculties of Management and Human Resources and Labor Education and Research Service in a cooperative arrangement with Ohio. The objective is to determine those conditions that led to constructive relationships over time and contribute to improvements in the economy, productivity, employee satisfaction, and job security. Longitudinal research is among the most expensive approaches, but also one of the most productive in terms of useful results obtained.
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Family Practice

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Departmental</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate (Medical School)</td>
<td>$255,000</td>
<td>$281,000</td>
</tr>
<tr>
<td>Graduate (Residencies, etc.)</td>
<td>1,198,000</td>
<td>1,317,000</td>
</tr>
<tr>
<td>Collaborative Activities</td>
<td>380,000</td>
<td>400,000</td>
</tr>
<tr>
<td>Focus On Underserved Populations</td>
<td>50,000</td>
<td>55,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$1,883,000</td>
<td>$2,053,000</td>
</tr>
</tbody>
</table>

Number of Residents to be Supported: 96 98

Program Statement Summary

The Family Practice medical program encourages students to select family medicine as a career specialty and provides students opportunities to study medicine in community situations. On July 1, 1986, a required course in family medicine for all Ohio State medical students was instituted. This enhanced exposure of prospective family physicians has led to the selection of family medicine as a specialty by increasing numbers of Ohio State students, among the highest of U.S. medical schools. It is expected that the retention of students, residents, and fellows in Ohio will continue to exceed that of other specialties.

We request $3,936,000 for the biennium in order to continue current operating levels with the opportunity for quality enhancement, in keeping with Ohio State’s goal of fostering academic excellence, and the training of fellows for academic careers to fill the many vacant faculty positions in departments of family medicine.

Program Statement

The family medicine specialty was established in 1973-74 by the Ohio General Assembly's Amended House Bill 474, which mandated that State-assisted medical schools establish and maintain a Department of Family Medicine. As a recent medical specialty, family medicine has been moving steadily towards institutionalization by establishing itself as an
academic discipline and carving out its own primary care niche within a traditional tertiary care setting.

In this regard, a major objective was achieved in 1986 with the approval of a required family medicine rotation for Ohio State's medical students. Additionally, the residency program has filled during the current biennium and is anticipated to maintain that status through fiscal year 1991. Fellowship training has increased substantially during this biennium as well, and the reputation of this program is advancing steadily. A special minority focus has developed in the fellowship program, requiring additional funding to remain viable.

However, as the program flourishes with the attainment of many of its training objectives and increases in responsibility through required course implementation and administration, resources have not kept pace with overall needs. Actual funding provided by the State during the current biennium was significantly below that requested, and current program levels cannot be maintained without the additional funding requested. Though successful in achieving substantial gains in grants and contracts to maintain financial viability over the last few years, such programs require a commitment to long-term continuation following the sponsored time-frame. Consequently, departmental operations and conservative growth in keeping with established goals and objectives will require additional resources as projected in this document.

The emphasis of the Department of Family Medicine is teaching primary care and quality care. The broad objectives are:

1. To promote the missions of the University and the College of Medicine by creating a viable department and through managing its orderly growth and academic contribution;

2. To expose all students in the College of Medicine to the general concepts and skills of family practice and to provide in-depth training to those students who elect a career in family practice;

3. To provide an accredited three-year residency program in family practice that will prepare the resident to pass the State Medical Board’s examination and to practice medicine as a family physician;

4. To make scholarly contributions to the field of family medicine and to provide advanced academic study beyond the residency in family practice (fellowships);

5. To provide quality patient care for the citizens of central Ohio in the Family Practice Center, satellite training centers, and in University Hospitals;

6. To recruit qualified minority applicants into The Ohio State University, its medical school, and into family medicine careers;
7. To study the special medical needs of the minority population and train physicians to meet those needs; and

8. To assist in the placement of resident graduates into positions of need, giving preference to the physician-short rural and inner city locations.

The proliferating demand from managed-care health plans for family practice residency graduates has only served to increase the shortage of family physicians in the rural and inner-city areas, where such plans have yet to penetrate. Programs to enhance recruitment of graduates to these areas surely are needed and are planned for the next biennium.

The Department of Family Medicine is participating in the University’s minority program to nurture the interests of minority middle-school students toward enrollment at The Ohio State University. The success of a Black Fellow during the past year has generated interest in developing a special minority fellowship line with a faculty position devoted to the development and supervision of the program.

Family physicians should be providing counseling services to patients regarding such problems as marital strife, substance abuse, career dissatisfaction, and the stress of aging. The addition of a stress center to the services of the Family Practice Center is anticipated to address the increasing needs for individual and family counseling encountered in current practice. The Center would provide direct patient counseling by family physicians and behavioral scientists, and the instruction of students and residents in counseling skills.
Primary Care

Budget Summary

<table>
<thead>
<tr>
<th>Budget Request Components*</th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Departmental</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate (Medical School)</td>
<td>$600,000</td>
<td>$648,000</td>
</tr>
<tr>
<td>Graduate (Residencies, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collaborative Activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Focus On Underserved Populations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>$600,000</td>
<td>$648,000</td>
</tr>
</tbody>
</table>

* We were not able to cost out Primary Care by the components. For this request we have reported in the same format as in the past.

Estimated number of Residents to be Supported: 94 98

Program Statement Summary

The main objective of Primary Care Residency support is to increase the quality and availability of primary care training positions in General Internal Medicine, General Pediatrics, and Family Medicine. Separate rotations have been established in General Internal Medicine and General Pediatrics. In addition, a four-year combined residency training program has been established which will lead to board certification in both General Internal Medicine and General Pediatrics. Our request of $1,248,000 for the biennium will assist the continuation of these efforts.

Program Statement

The Ohio State University College of Medicine is committed to the advancement of primary care training as an integral part of our mission. We have been successful in providing an environment which stimulates and encourages medical students to enter primary care fields. This has been accomplished with the support of the General Assembly through appropriations for primary care residencies in Family Medicine, General Medicine, and General Pediatrics.

The Ohio State University Primary Care Program is designed to implement the objectives of the Ohio General Assembly and the Ohio Board
of Regents to increase the number and quality of post-M.D. trainees in primary care disciplines. Since The Ohio State University has existing programs in the three primary fields of Internal Medicine, Pediatrics, and Family Medicine, emphasis has been placed on establishing specific General Internal Medicine and Pediatric residency positions. Also, funds will be used to support the teaching activities of primary care trainees in those departments which particularly need this help.
Geriatric Medicine and Gerontology

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>$155,000</td>
<td>$165,000</td>
</tr>
<tr>
<td>Research</td>
<td>90,000</td>
<td>110,000</td>
</tr>
<tr>
<td>Other Educational Activities</td>
<td>95,000</td>
<td>120,000</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$340,000</td>
<td>$395,000</td>
</tr>
</tbody>
</table>

Program Statement

Current support for geriatrics and gerontology in the Ohio General Assembly is limited to support of medical student education to ensure that these students are adequately prepared to serve the estimated 70 percent of their patient population who will be over the age of 65. Ohio's current 65+ population is 12.3 percent, with a 12.9 percent increase from 1980 to 1986. An even more rapid population growth is taking place in the 75-and-older segment. This segment is expected to have a net growth of 48.5 percent from 1980 to the year 2005.

Today's medical student must be trained to take care of the elderly; therefore, the primary focus of The Ohio State University's Office of Geriatrics and Gerontology is on improving the basic science and clinical education of our medical students in geriatric medicine. The Office is working closely with the Area Health Education Center Program, now funded by the State of Ohio, to provide community outreach and educational sites for medical students, nurses, dentists, and students in the allied medical professions. This effort will continue. The purpose of this program request is to fund the education and training of non-physician health-care workers who will be needed to care for the one-in-five Ohioans who will be over the age of 65 by the year 2020.

Special education and training funding is being requested because of the critical shortage in all fields of faculty trained in geriatrics and gerontology. These fields include medicine, nursing, dentistry, the allied medical professions, pharmacy, and optometry. The national shortage of certified geriatric physicians clearly documents this major national problem. A special effort will be made to train faculty members in community and technical colleges throughout central and southeastern Ohio in the principles of geriatric medicine and gerontology.
Inasmuch as the health care delivered in such institutions as nursing homes is delivered by licensed practical nurses (LPN) who are typically trained in community hospitals, colleges, and technical schools, we would hope this training program would address the critical problem of the 100 percent turnover of LPN staff in many nursing homes in this region. High turnover rates have been shown to be directly correlated with the quality of life of nursing residents.

The second focus of our training and education programming will be on the development and implementation of educational programs for both pre-service and in-service students from the various health professional disciplines such as medical students, residents, practicing nurses, student nurses, allied medical professions students (including physical therapy and nutrition), dentists, pharmacists, optometrists, long-term care facility administrators, geriatric social workers, and health and recreation specialists. A significant portion of the "office" and "other educational activity" funds will be used to develop "teaching nursing homes" along the same model and for the same reasons that teaching hospitals have been developed. Upon the opening of The Ohio State University Hospitals' Davis Center for Arthritis and Geriatrics, expanded educational programs will be possible for medical students as well as other non-physician health professional students. The Geriatric Patient Assessment Unit will be a teaching and research unit providing state-of-the-art knowledge in disease prevention and detection. A Geriatric Patient Assessment Program also will provide an excellent opportunity to teach health professional students to become patient educators by having them actively participate in our community outreach programs.

Funding also is requested for geriatrics and gerontology research programs which will keep Ohioans active and independent for as many years as possible, and for the development of innovative patient care services which will ensure high-quality care for the elderly at a minimal cost.

Research is needed on a wide variety of problems affecting Ohio's elderly, which range from basic research on aging to clinical research. For example, it is estimated that there are 10,000 Alzheimer's disease victims in Franklin County alone. Research also is needed on health policy and the delivery of health services through innovative mechanisms. Most of the requested funds will be used to support competitively awarded seed grants which result in increased federal and foundation support. Some funds also will be used as matching money for special research equipment in both the clinical and basic science laboratories. These matching funds are required to participate in such programs as the National Institutes of Health's major research equipment support program.

Research funds will not be limited to biomedical research, however. There are significant non-medical problems affecting Ohio's elderly which fall into the general category of gerontological research. Such problems as legal issues, housing, transportation, safety and physical security, living arrangements, exercise, and recreation will be explored.
Maternal and Child Health Institute

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$ 800,000</td>
<td>$ 800,000</td>
</tr>
</tbody>
</table>

Program Statement Summary

The mission of the Maternal and Child Health Institute is the promotion and augmentation of interdisciplinary research, education, and training, and the provision of health-care services for women and children. The Institute fosters an environment in which basic scientists, clinical researchers, social scientists, and policy makers work together in the interest of maternal and child health in Ohio and the nation. It will generate and disseminate new knowledge and promote the use of such knowledge to improve the health status of women and children.

Program Statement

The Institute will link the Department of Pediatrics of The Ohio State University College of Medicine/Children's Hospital--one of the nation's major resources in research and health care for children; the Department of Obstetrics and Gynecology/The Ohio State University Hospitals, a major resource for research in women's health and high-risk pregnancy; and the Department of Preventive Medicine/The Ohio State University Hospitals, with its strengths in epidemiology, biostatistics, the economics of community health, and health policy and planning. Our reputation in training already has been recognized by major funding from the federal Maternal and Child Health Program to establish a Continuing Education Institute for children with special health care needs and the funding of fellowships in behavioral-developmental pediatrics.

In obstetrics, we have been awarded a grant by the Robert Wood Johnson Foundation for the regionalization of perinatal care programs, received monies from the State of Ohio for a high-risk pregnancy project, and been funded by the March of Dimes for study of the prevention of pre-term delivery. In preventive medicine, our Biometrics Laboratory is involved in the design and analysis of approximately fifty projects each year, and we have been studying the data of the National Longitudinal Survey of Youth, U.S. Department of Labor, 1979 to 1986. This data base now contains maternal-child information on a sample of nearly 6,000 births, including developmental measures.
To our knowledge, there is no other Institute that combines such resources and strength in research, training, and health care activities in one community. In addition to the departments and facilities mentioned above, other University departments and State and local health and health-related agencies will be involved to enhance the potential of this endeavor for serving the health of women and children in Ohio and disseminating information throughout the country. This is a most important and exciting opportunity for The Ohio State University and the State of Ohio.
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

Neurobiotechnology

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$800,000</td>
<td>$800,000</td>
</tr>
</tbody>
</table>

Program Statement

Recombinant DNA technology is fundamental to the practice of medicine in the 21st century. Molecular biology will allow scientists to identify the gene, establish the defect in the gene, and develop a rational gene replacement therapy. These techniques represent the future in establishing the diagnosis of disease already present, susceptibility to the disease in the future, and a treatment regime that corrects defects instead of symptoms. Neurobiotechnology will describe the normal brain and nervous system. This methodology will provide rational therapy for diseases of the nervous system in an aging population. Familial Alzheimer’s disease, muscular dystrophy, Parkinson’s disease and the devastating hereditary diseases of the very young, such as the lipidoses, can and will be treated by the scientific advances of the Neurobiotechnology Laboratory. This laboratory will be a resource for the State, the nation, and, indeed, the world.

An initial investment of $800,000 per year for two years will provide start-up funds for four senior investigators. Within two years, these senior investigators will be expected to generate funds in excess of $1,500,000 per year for the Neurobiotechnology Laboratory. The laboratory will initially create over thirty new positions for technical staff members. Planned expansion will allow the Neurobiotechnology Laboratory to grow within five years to a staff of ten senior scientists, a supporting staff of 60 to 80 technical people, and a budget of between $3,000,000 and $5,000,000 per year.
Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$385,000</td>
<td>$385,000</td>
</tr>
</tbody>
</table>

Program Statement Summary

The Ohio Sea Grant Program at The Ohio State University is part of the National Sea Grant College Program—a partnership of government, higher education, and industry—designed to accelerate the development, conservation, proper management, and economic utilization of our country’s marine and aquatic resources. And, because Ohio’s north coast is Lake Erie, Ohio Sea Grant focuses its efforts on the economic and environmental revitalization of this resource. The goals of the program are to be accomplished through research applied to current problems, education and training, and advisory service—the transfer of technology and knowledge to the people who need it in a form they can use.

Program Statement

Ohio Sea Grant is part of the Lake Erie Program at The Ohio State University which also includes the Center for Lake Erie Area Research (CLEAR) and the Franz Theodore Stone Laboratory. Stone Laboratory, located on Gibraltar Island in the harbor at Put-in-Bay, Ohio, is the oldest freshwater biological field station in the country, having operated since 1895. This laboratory fulfills an important educational role for the program. Each summer 12 to 16 college courses are offered at the laboratory, while an aquatic biology workshop program for students Statewide is offered during the spring and the fall. The programs at the laboratory are of particular benefit to science teachers throughout the State, and the graduates of the program are among the leaders and decision-makers who have brought about the dramatic improvement in Lake Erie.

The Ohio State University recognizes that Stone Laboratory is a unique teaching and research facility and, as such, is an asset to the entire State. As a result, since 1985, Ohio State has operated the laboratory as a consortium for all State-assisted colleges and universities in Ohio by allowing students from these schools to register and pay fees at their home institution. Research projects, some of which are funded at other colleges and universities within Ohio, are both basic and applied/problematic in nature and designed to solve problems which
are inhibiting the wise development and utilization of our Lake Erie resources.

The program is requesting $770,000 for the biennium to support the use of Stone Laboratory by all State-assisted schools and to increase the research, education, and advisory service efforts of Ohio Sea Grant to better leverage federal funds.

The Ohio Sea Grant Extension Program within the Ohio Cooperative Extension Service includes three full-time agents in Port Clinton, Elyria, and Painesville. It is the responsibility of each agent to transfer the most recent technological developments to those Lake Erie users needing the information, and identify problems and determine needs for future research projects and/or educational programs. The activities of these agents are both of an educational and public service nature. Furthermore, the agents work throughout the State, as evidenced by a Lake Erie fishing clinic conducted in Dayton and attended by 430 people, and teacher workshops in Cincinnati and Marietta.

Ohio Sea Grant’s ability to bridge the gap between Ohio’s colleges and universities and the private and public sectors, one of the program’s major strengths, was greatly enhanced with the formation of an advisory committee for each agent. Each committee is composed of influential and energetic citizens who represent a diverse set of interests in Lake Erie. The functions of the committees are to: (1) legitimize and lend credibility to activities; (2) provide technical and socio-economic guidance; (3) advise on program and area needs; (4) aid in prioritizing Sea Grant activities; (5) evaluate programs; and, (6) help conduct programs.

Consequently, Ohio Sea Grant provides for input from the private sector when research priorities are established, and it provides a mechanism to coordinate and direct the capabilities and expertise of the private and public sectors and Ohio’s many colleges and universities toward critical problems and issues relating to Lake Erie and Ohio’s coastal resources. The program’s successes are well recognized. In addition to being a land-grant University, the U.S. Department of Commerce will soon designate The Ohio State University as a Sea Grant University.

Surrounded by four states and two countries, Lake Erie is one of the most important lakes in the world and is Ohio’s most valuable natural resource. A measure of the program’s success has been the development of the charter fishing industry, each a small business. Since the start of Ohio Sea Grant, the number of charter fishing businesses has increased from 34 to more than 1,000. Lake Erie is truly at the heart of Ohio’s developing tourist industry—the average sports enthusiast comes from 86 miles away, and 10 percent come from more than 150 miles away.

However, Lake Erie has economic values reaching far beyond its recreational assets. Each day 11 million people get their drinking water from Lake Erie. The lake is surrounded by well over 20 power plants,
many of which use in excess of 500,000 gallons per minute for cooling purposes. Annually, Ohio ships almost as much coal from Ohio ports as is produced within the State. Lake Erie also is the most productive of the Great Lakes, and produces more fish for human consumption than the other four combined.

Lake Erie is not without problems. It is the most organically enriched of the Great Lakes, with tons of agricultural fertilizers and sewage pouring in daily. This fertilization has caused major portions of the bottom water in the central basin of the lake to become devoid of oxygen and fish life. Furthermore, fish from areas such as the Ashtabula River and the Black River (Lorain) cannot be eaten because of contamination with toxic chemicals. The Ashtabula River and the Maumee River are considered "Areas of Concern" by the U.S. Environmental Protection Agency. Erosion is also a significant problem, with $60 million of erosion damage documented in Lake and Ashtabula counties from 1972 through 1976.

Ohio Sea Grant and CLEAR have addressed all these issues in the past and will continue to do so in the future, as the program's projects deal with all issues related to Lake Erie. In addition to the biological emphasis on fishery development and management and pollution abatement, the program has ongoing projects to: evaluate and determine the impact of various segments of Ohio's coastal economy (such as charter fishing, marinas, the bait industry, fishing tournaments, private boat fishing, marine trades, and shipping); determine new techniques for underwater welding; develop a biological organism to control blue-green algae blooms; determine movement of contaminated sediments in the lake; and many more. A portion of the funds requested in this proposal ($275,000 per year) will be used to support the research, education, and advisory service efforts of Ohio Sea Grant to maintain this program as a true center of excellence for all water and coastal research in Ohio.

The remainder of the funds requested, $110,000 per year, will be used to further develop the course program at the Franz Theodore Stone Laboratory for all students in Ohio's State-assisted colleges and universities. It is widely recognized that experience at a biological field station is essential for students pursuing degrees in ecological, environmental, and resource management fields. Stone Laboratory's island location near Put-in-Bay provides a valuable and unique experience for Ohio's college and pre-college students. There are things that one cannot learn in a classroom or from a book. Stone Laboratory emphasizes the hands-on approach, and students learn by doing. The requested funds will provide valuable assistance to the summer teaching program as we open the laboratory to all students at Ohio's State-assisted colleges and universities for valuable training. These funds will enable us to augment the laboratory's role as a center of excellence in the State, the region, and, indeed, the nation.

Because a 1 to 2 match is required for Sea Grant's federal assistance, previous support from the Board of Regents literally has allowed Ohio Sea Grant to exist. Without that funding, most of the
research, education, and advisory service efforts would not have been possible. These efforts include such activities as: the publication of our newsletter "Twine Line," approximately 10 to 12 research projects per year going back to 1983 (the first year of the Regents' support), the activities of three Sea Grant agents and their advisory committees, and the training of countless science teachers through our education program.

Some of Ohio Sea Grant's accomplishments include:

1. Work with the U.S. Army Corps of Engineers to have sand that was dredged from the harbor at Fairport returned to the littoral drift zone, where it will reduce erosion. The success of this effort has been valued at $380,000 per year;

2. The organization and development of "State Legislature/Congressional Days on Lake Erie" in June annually from 1982 to 1987. These programs allowed members of our General Assembly and Congressional delegations and their aides to learn of the value of Lake Erie and experience personally its beauty and richness. They now understand not only that Lake Erie is not dead, but that it is one of the most productive and important lakes in the world. This valuable educational program began operating on alternating years in 1987;

3. The development of a market for gizzard shad, a heretofore valueless fish, valued in excess of $100,000 per year;

4. The development and implementation of a Marine Reports Program (MAREPS) with NOAA Weather Service to improve Lake Erie weather forecasts and make the lake a safer place to boat;

5. The development and implementation of an artificial reef program for the central basin of Lake Erie, which will serve as an economic stimulus for the region (over 7,000 tons of material has been placed at reef sites near Cleveland and Lorain);

6. The development of economic value estimates for the various components of the Lake Erie economy to aid resource managers;

7. Assistance to communities in planning shoreline and tourist development projects to avoid wasting valuable community dollars and to help them maximize the impact of tourism dollars rather than simply increasing their number. As an example of our success in this area, one community saved $8,000, and others received federal grants of $375,300 and $200,000;

8. The education component of the Ohio Sea Grant Program is considered the best in the nation, and Ohio's Sea Grant agents have received two-thirds of all the Great Lakes Sea Grant awards for their work on recreational fishing development, artificial reef development, market development for underutilized fish, and erosion prevention.
9. Assistance to many small businesses, including charter fishing businesses which have increased in number from 34 when the program started to more than 1,000 in 1988;

10. The development of new techniques to weld under water.
THE OHIO STATE UNIVERSITY
1989-91 BIENNIAL BUDGET REQUEST

The Ohio Center for Foreign Languages
and International Development

Budget Summary

<table>
<thead>
<tr>
<th></th>
<th>1989-90</th>
<th>1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Request</td>
<td>$250,000</td>
<td>$275,000</td>
</tr>
</tbody>
</table>

Program Statement Summary

The growing importance of international activities and the increased role of Ohio in a global economy make it essential for Ohio's students, government agencies, and businesses to have access to the skills and knowledge necessary to understand foreign languages and cultures. Without such support, Ohio risks the considerable progress it has made in the international economy as other states undertake efforts to improve their competitive edge. The establishment of an Ohio Center for Foreign Languages and International Development would be a vital step in helping to maintain and enhance our position in an increasingly competitive world economy. The Center will provide instructional programs, research, and enhanced use of technology in promoting the understanding, study, and teaching of foreign languages, as well as services to businesses and the public sector dealing with foreign interests in international commerce.

Program Statement

Funds are sought to permanently establish an Ohio Center for Foreign Languages and International Development at The Ohio State University. The Center would pursue a program of service and outreach, program development, research, instructional projects, and liaison to achieve its objectives. Its statewide mission would include, but not be limited to, the following:

1. **Instructional and Program Development:** Promoting the study and teaching of foreign languages -- especially the less-commonly taught languages -- throughout the educational system of the State of Ohio, elementary school through graduate school. Particular attention would be paid to the needs of the Ohio business community for instruction in languages and cultures in world areas of particular interest.

2. **Research and Technology:** Conducting research and development programs on the application of educational technology to foreign language instruction, disseminating the results of these programs, and assisting in the implementation of advances in educational
technology for the benefit of foreign language instruction throughout the State. Such technological developments (including computer-assisted instruction, satellite broadcasting, and two-way interactive video) could be used, for example, to make language instruction available at numerous sites around the State, eliminating the need for learners to commute to a major urban center.

3. **Service, Outreach, and Liaison**: Enhancing the capacity of the government of the State of Ohio and Ohio's businesses to interact effectively with foreign governments and businesses for the betterment of the economy of the State of Ohio.

Ohio has taken a place in the world economy, exporting agricultural and manufactured products and simultaneously becoming a center for foreign investment as well. If these ties with foreign governments and businesses are to continue to grow and add to the economic welfare of the State, we need an educated, internationally sophisticated populace. The proposed OCFLID could provide a valuable and economical link, ensuring through one office and administrative network that appropriate resources around the State were known by, and made available to, schools, colleges, government agencies, and businesses as they develop programs or uncover needs related to foreign languages, cultural understanding, and international commerce. Duplication of effort in establishing and maintaining expensive, low-use programs in languages, cultural, and business support would be eliminated. Instead, economies of scale could be realized by consolidating these activities into a common center.

The establishment of such a Center would be consistent with, and could even help achieve, goals articulated in recent State and federal legislation, such as the State and federal versions of the "Education for Economic Security Act," the establishment of federal language and area centers at colleges and universities around the country, and two more federal programs passed in recent months: the School Improvement Amendments of 1988 and the Omnibus Trade and Competitiveness Act of 1988. Included in both of these acts are a number of English literacy provisions, model elementary and secondary foreign language programs, outstanding foreign language teacher awards, and the star schools program for technology to improve instruction in mathematics, science, and foreign languages. The more forward-looking Ohio can appear through, for example, the establishment of a Center such as the one proposed here, the more likely we are to be favorably positioned to receive federal funding from programs that focus on these same areas.

In many ways The Ohio State University is the ideal setting for such a statewide Center. Located in the State's capital, at the geographic center of the State, and at its flagship university, such a Center could be in direct touch with government and international trade offices, would have easy access to legislators and the legislative process, and would be reachable by (and could reach out to) any school, business, or community in the State via a relatively short drive. The existing Ohio State Foreign Language Center, with its established Statewide, national, and
international contacts could serve as the starting point for such a Center. The University's foreign language departments, offering regular instruction in some 25 languages, have a history of cooperation, innovation, service, and dissemination. The University already is home to two federally funded language and area studies centers (Middle East and East Asian), has two more centers (Slavic and Latin American) of long standing, and the relatively new Institute for Japanese Studies. Finally, The Ohio State University is internationally known as a result of decades of hosting thousands of international students, scholars, and visitors on this campus every year. The existing network of international alumni could be used to provide Ohio businesses ready access to their counterparts in dozens of countries around the world.

The need is there, the time is right, and the resources are largely in place to make the Ohio Center for Foreign Languages and International Development a reality, for the economic and educational benefit of all Ohioans. Ohio, like many other states, is now recognizing its need to ensure an educated populace that will be in a position to assume leadership positions in internationally interdependent communities in the 21st century. New York, Florida, Tennessee, North Carolina, Louisiana, and Oklahoma are among the states that have taken, and are taking, vigorous action to upgrade their capacity to provide instruction in foreign languages and to provide support for international studies and business activity. Ohio's initiative will ensure an impressive level of support to its educational institutions and businesses, and a leadership position in the economic redevelopment that will be the result of a forward-looking State commitment to enhanced international competitiveness.
Biotechnology is rapidly emerging as a major factor in the economy of the future. Agriculture, medicine, and industry all stand to benefit tremendously from developments in biotechnology. Worldwide, nations and businesses are making biotechnology a top priority. The Ohio State Biotechnology Center is emerging as a focus of research and knowledge in this area. Through this proposed program, we intend to expand our activities to include a major effort in training, research, service, and technology transfer to establish the foundations necessary to make the academic and industrial communities in Ohio major participants in the field of biotechnology.

Program Statement

Through the use of recombinant DNA technology, biotechnology promises to revolutionize current practices in agriculture, medicine, and industry in general. Its potential is so immense that hundreds of new companies have been founded in the United States and in other countries to pursue the new avenues opened up by this technology, and most major corporations have started major divisions in biotechnology. Many nations, including Japan and other industrialized countries, have declared biotechnology a top national priority and invested heavily. Worldwide investment in this emerging field is estimated to have already exceeded $50 billion. By 1991, it is projected that the market size for biotechnology products will be about $5 billion. This market is expected to quadruple to $20 billion by the year 2000. The economic impact of this new technology is obviously recognized.

Most major industries realize that biotechnological aspects will assume an increasing proportion of their industrial activities and by the turn of the century, biotechnology products are expected to represent a major portion of the business in agriculture, medicine, and industry in general. The pharmaceutical industry already depends on biotechnology for diagnostics and the production of new drugs for the treatment of diseases.
In agriculture, the chemical industry that currently produces large amounts of chemicals to protect our crops will be involved in improving plants to resist diseases and adverse environmental conditions, including drought and salinity. Food producers also are involved in developing methods to improve the preservation, processing, and nutritional value of food crops. A quantum jump in profitability in agriculture will occur as new uses for agricultural raw materials are discovered in manufacturing, specialty chemicals, and consumer products.

Methods of environmental decontamination and protection also are being examined. Biotechnology is currently addressing the issues of coal desulphurization and oil spills. Already familiar household goods such as detergents, produced by corporations such as Proctor and Gamble, are being made environmentally safer by the use of biotechnology.

Most states have recognized that industrial competitiveness depends on the ability of the state or the region to provide skilled workers who can handle new technologies and provide expertise at the cutting edge of science. Therefore, most states have launched major efforts to promote biotechnology research and training, and thus attract new industry to their areas. One striking example, of course, is Iowa, a relatively small state that provided $55 million for a physical facility and $18 million for operating expenses over a four-year period to launch an agricultural biotechnology center.

A broad range of major programs in biotechnology already exists in most states. A coordinated research and training effort in this new technology will be vital to Ohio's economic future. The Ohio State University proposes to provide the lead in coordinating and promoting biotechnology research, training, service, and technology transfer through the Ohio State Biotechnology Center. A major emphasis of the proposed program will be to bridge the basic and applied areas of biotechnology and thus facilitate development and transfer of the new technology.

The comprehensive nature of The Ohio State University allows it to provide a leadership and coordinating role in all of the areas that would be affected by this new technology. This proposed program, although modest in its scope for a state as large as Ohio, will concentrate on four aspects: research, training and education, service, and technology transfer.

In the research area, it is intended to provide support for innovative, exploratory, and interdisciplinary projects that are likely to generate new technology. Such select projects will constitute collaborations among researchers in basic sciences and those who are attempting to solve practical problems in agriculture, medicine, industry, and other areas. The frequent interactions among basic and applied scientists resulting from such collaborative efforts will facilitate both the development and implementation of new technologies.
The training and educational aspect will include workshops designed to provide theoretical knowledge and hands-on experience to personnel in the academic, industrial, and governmental communities throughout the State. A research participation program will allow faculty members in smaller institutions to pursue projects in major university laboratories involved in research at the cutting edge. Such training will enable them to apply new technology in their own research and in teaching their students.

Since biotechnology will affect all aspects of our lives, education in this field must begin in the high schools. However, teachers usually lack formal training in newly emerging and fast moving fields such as biotechnology. Workshops and summer research participation will be provided for high school science teachers and junior college faculty so that they can incorporate the latest knowledge into their instructional programs. To attract Ohio's fair share of the brightest, creative young people into biotechnology, predoctoral and postdoctoral fellowship programs will be established. Such outstanding scholars will be placed in interdisciplinary research efforts involving collaboration between basic and applied sciences in the best laboratories in Ohio. Their creativity will strengthen research, open up new dimensions, and provide the intellectual resource that will attract industry.

Service activities of the proposed program will include establishing a core facility with technical staff that will provide access to sophisticated instrumentation and technological expertise. Researchers from both the academic and industrial communities would have access to this service. Such access will allow individuals not located in the largest industrial and academic centers to conduct research at the cutting edge.

The final component of the proposed program is technology transfer, a critical need for industrial development. It is said that without a vigorous effort in technology transfer, the United States will become the greatest exporter of basic information and greatest importer of finished products. This program will facilitate the transfer of information that is generated in the academic laboratories of the State to the industrial clientele who can use it to improve the processes and products that will have a direct impact on the Ohio economy. Such a program will include the evaluation of new technologies, their possible applications, and the feasibility of implementation. This effort will identify potential opportunities to the Ohio academic community and facilitate the sharing of knowledge between the researcher and the producer.
Page 632 is blank
APPENDIX X

AVIATION ACADEMIC FACILITY

Adopted by Board of Trustees December 2, 1988
(See page 396)
AVIATION ACADEMIC FACILITY

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 2, 1988
APPENDIX XI

VETERINARY HOSPITAL
UPGRADING LABORATORY ANIMAL FACILITIES

Adopted by Board of Trustees December 2, 1988
(See page 397)
### VETERINARY HOSPITAL
#### UPGRADING LABORATORY ANIMAL FACILITIES

**Description:** This project provides for the upgrading of laboratory animal facilities used by the College of Veterinary Medicine, on the ground floor of the Veterinary Hospital to support animal care and research.

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Contract</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$330,000.00</td>
<td>$542,700.00</td>
</tr>
<tr>
<td>Alt. G-1 (Isolation Rooms)</td>
<td>+24,000.00</td>
<td>+40,000.00</td>
</tr>
<tr>
<td>Alt. G-2 (Rooms 105A, 106, 106 A&amp;B, 107, 108 &amp; 109)</td>
<td>+27,000.00</td>
<td>+42,000.00</td>
</tr>
<tr>
<td>Alt. G-4 (Dog run gates)</td>
<td>+23,000.00</td>
<td>+19,000.00</td>
</tr>
<tr>
<td>Alt. G-5 (Flush valves in Room 112)</td>
<td>+4,000.00</td>
<td>+2,000.00</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td>$408,000.00</td>
<td>$645,700.00</td>
</tr>
<tr>
<td><strong>Plumbing Contract</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$38,376.00</td>
<td>$39,009.00</td>
</tr>
<tr>
<td>Alt. P-1 (Isolation Rooms)</td>
<td>+2,300.00</td>
<td>+3,500.00</td>
</tr>
<tr>
<td>Alt. P-2 (Rooms 105A, 106, 106 A&amp;B, 107, 108 &amp; 109)</td>
<td>+13,340.00</td>
<td>+11,900.00</td>
</tr>
<tr>
<td>Alt. P-5 (Flush valves in Room 112)</td>
<td>+5,060.00</td>
<td>+14,450.00</td>
</tr>
<tr>
<td><strong>Total Plumbing Contract</strong></td>
<td>$59,076.00</td>
<td>$68,859.00</td>
</tr>
</tbody>
</table>
## VETERINARY HOSPITAL
### UPGRADING LABORATORY ANIMAL FACILITIES (Cont)

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC Contract</td>
<td>$217,300.00</td>
<td>$167,291.00</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$217,300.00</td>
<td></td>
</tr>
<tr>
<td>Alt. H-1 (Isolation Rooms)</td>
<td>+30,000.00</td>
<td>+20,000.00</td>
</tr>
<tr>
<td>Alt. H-2 (Rooms 105A, 106, 106 A&amp;B, 107, 108 &amp; 109)</td>
<td>+7,500.00</td>
<td>+11,450.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$254,800.00</td>
<td>$198,741.00</td>
</tr>
<tr>
<td>Electric Contract</td>
<td>$68,400.00</td>
<td>$76,000.00</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$68,400.00</td>
<td></td>
</tr>
<tr>
<td>Alt. E-1 (Isolation Rooms)</td>
<td>+7,100.00</td>
<td>+8,135.00</td>
</tr>
<tr>
<td>Alt. E-2 (Rooms 105A, 106, 106 A&amp;B, 107, 108 &amp; 109)</td>
<td>+3,100.00</td>
<td>+1,950.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$78,600.00</td>
<td>$86,085.00</td>
</tr>
<tr>
<td>TOTAL ALL CONTRACTS</td>
<td>$800,476.00</td>
<td>$999,385.00</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td>$1,000,000.00</td>
<td></td>
</tr>
</tbody>
</table>

Funding: Federal Grant and University Funds

Plans and Specifications - 7/11/86
Report of Award of Contracts - 12/2/88
TABULATION OF BIDS

UPGRADE LABORATORY ANIMAL FACILITIES

VETERINARY HOSPITAL

<table>
<thead>
<tr>
<th>Bids Received</th>
<th>The Division of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>September 14, 1988</td>
</tr>
<tr>
<td>Opened By</td>
<td>J. Sutton</td>
</tr>
<tr>
<td>Tabulated By</td>
<td>D. Braden</td>
</tr>
</tbody>
</table>

### GENERAL CONTRACT

**BASE BID**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$542,700.00</td>
<td>+$40,000.00</td>
<td>+$28,000.00</td>
<td>+$25,000.00</td>
<td>+$35,000.00</td>
</tr>
<tr>
<td>$330,000.00</td>
<td>+$24,000.00</td>
<td>+$37,600.00</td>
<td>+$30,500.00</td>
<td>+$30,000.00</td>
</tr>
<tr>
<td>$354,400.00</td>
<td>+$27,000.00</td>
<td>+$30,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$8,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ALT. G-1**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+$23,000.00</td>
<td>+$4,000.00</td>
<td>+$3,400.00</td>
<td>+$2,500.00</td>
<td>+$2,500.00</td>
</tr>
<tr>
<td>+$27,000.00</td>
<td>+$4,000.00</td>
<td>+$10,700.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$28,000.00</td>
<td>+$2,500.00</td>
<td>+$1,500.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ALT. G-2**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+$27,000.00</td>
<td>+$12,000.00</td>
<td>+$11,400.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$30,500.00</td>
<td>+$10,700.00</td>
<td>+$10,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$30,000.00</td>
<td>+$1,500.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ALT. G-3**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+$7,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$66,500.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$8,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### GENERAL CONTRACT (cont)

**ALT. G-4**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+$19,000.00</td>
<td>+$2,000.00</td>
<td>+$3,400.00</td>
<td>+$2,500.00</td>
<td>+$2,500.00</td>
</tr>
<tr>
<td>+$7,000.00</td>
<td>+$12,000.00</td>
<td>+$11,400.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$7,200.00</td>
<td>+$1,500.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ALT. G-5**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+$4,000.00</td>
<td>+$12,000.00</td>
<td>+$10,700.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$3,400.00</td>
<td>+$11,400.00</td>
<td>+$10,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+$1,500.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ALT. G-6**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+$12,000.00</td>
<td>+$2,500.00</td>
<td>+$2,500.00</td>
<td>+$2,500.00</td>
<td>+$2,500.00</td>
</tr>
<tr>
<td>+$11,400.00</td>
<td>+$1,500.00</td>
<td>+$1,500.00</td>
<td>+$1,500.00</td>
<td>+$1,500.00</td>
</tr>
<tr>
<td>+$1,500.00</td>
<td></td>
<td></td>
<td>+$1,500.00</td>
<td></td>
</tr>
</tbody>
</table>

### PLUMBING CONTRACT

**BASE BID**

<table>
<thead>
<tr>
<th>Estimate of Cost</th>
<th>Williamson Builders, Inc.</th>
<th>Edmonds Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>$39,009.00</td>
<td>+$3,500.00</td>
<td>+$3,553.00</td>
</tr>
<tr>
<td>+$13,340.00</td>
<td>+$12,046.00</td>
<td>+$10,813.00</td>
</tr>
<tr>
<td>+$5,060.00</td>
<td>+$1,500.00</td>
<td></td>
</tr>
</tbody>
</table>

**ALT. P-1**

<table>
<thead>
<tr>
<th>Estimate of Cost</th>
<th>Williamson Builders, Inc.</th>
<th>Edmonds Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>+$2,300.00</td>
<td>+$3,500.00</td>
<td>+$3,553.00</td>
</tr>
<tr>
<td>+$13,340.00</td>
<td>+$12,046.00</td>
<td>+$10,813.00</td>
</tr>
<tr>
<td>+$5,060.00</td>
<td>+$1,500.00</td>
<td></td>
</tr>
</tbody>
</table>

**ALT. P-2**

<table>
<thead>
<tr>
<th>Estimate of Cost</th>
<th>Williamson Builders, Inc.</th>
<th>Edmonds Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>+$11,900.00</td>
<td>+$3,500.00</td>
<td>+$3,553.00</td>
</tr>
<tr>
<td>+$14,450.00</td>
<td>+$12,046.00</td>
<td>+$10,813.00</td>
</tr>
<tr>
<td>+$5,060.00</td>
<td>+$1,500.00</td>
<td></td>
</tr>
</tbody>
</table>

**ALT. P-5**

<table>
<thead>
<tr>
<th>Estimate of Cost</th>
<th>Williamson Builders, Inc.</th>
<th>Edmonds Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>+$5,060.00</td>
<td>+$1,500.00</td>
<td></td>
</tr>
</tbody>
</table>
# TABULATION OF BIDS (Cont)

**UPGRADE LABORATORY ANIMAL FACILITIES**  
**VETERINARY HOSPITAL (cont)**

<table>
<thead>
<tr>
<th>HVAC CONTRACT</th>
<th>BASE BID</th>
<th>ALT. H-1</th>
<th>ALT. H-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aries-CH &amp; V (AJV)</strong></td>
<td>$198,595.00</td>
<td>+$33,900.00</td>
<td>+$11,200.00</td>
</tr>
<tr>
<td><strong>Wayne Mech./J.A. Guy (AJV)</strong></td>
<td>217,300.00</td>
<td>+$30,000.00</td>
<td>+$7,500.00</td>
</tr>
<tr>
<td>Williamson Builders, Inc.</td>
<td>234,116.00</td>
<td>+$37,400.00</td>
<td>+$15,950.00</td>
</tr>
<tr>
<td>Edmonds Mechanical</td>
<td>339,380.00</td>
<td>+$51,738.00</td>
<td>+$11,286.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTRIC CONTRACT</th>
<th>BASE BID</th>
<th>ALT. E-1</th>
<th>ALT. E-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Avant Contr./Romanoff Elec. (AJV)</strong></td>
<td>$68,400.00</td>
<td>+$7,100.00</td>
<td>+$3,100.00</td>
</tr>
<tr>
<td>Advantage Electric, Inc.</td>
<td>73,698.00</td>
<td>+$7,716.00</td>
<td>+$2,878.00</td>
</tr>
<tr>
<td>WECS/NEWCO (AJV)</td>
<td>75,472.00</td>
<td>+$8,987.00</td>
<td>+$2,084.00</td>
</tr>
<tr>
<td>Aries-States Electric (AJV)</td>
<td>76,500.00</td>
<td>+$9,650.00</td>
<td>+$2,700.00</td>
</tr>
</tbody>
</table>

+ Contract awarded to second low bidder because JV rejected by Minority Business Enterprises.

* Contracts awarded these bidders including Alternates G-1, G-2, G-4, G-5, P-1, P-2, P-5, H-1, H-2, E-1, and E-2.
VETERINARY HOSPITAL UPGRADING
LABORATORY ANIMAL FACILITIES

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 2, 1988
APPENDIX XII

DOAN HALL - CHILLER STATION RENOVATION

Adopted by Board of Trustees December 2, 1988
(See page 399)
DOAN HALL CHILLER STATION RENOVATION

Description: This project will avoid two relocations of a chiller for Doan Hall necessitated by the Medical Logistical (Infill) project currently under construction, by providing chilled water for the critical Computer Room air conditioning from the Doan Hall penthouse by installing two chilled water pipes from the 12th floor to the 3rd floor.

<table>
<thead>
<tr>
<th>Mechanical Contract</th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$122,700.00</td>
<td>$165,000.00</td>
</tr>
<tr>
<td>Alt. M-1 (Chiller modifications)</td>
<td>+57,600.00</td>
<td></td>
</tr>
<tr>
<td>Total Mechanical Contract</td>
<td>$180,300.00</td>
<td>$165,000.00</td>
</tr>
</tbody>
</table>

TOTAL ALL CONTRACTS $180,300.00 $165,000.00

TOTAL PROJECT COST $215,293.50

Funding: University Hospitals Funds

Plans and Specifications - 9/2/88
Report of Award of Contracts - 12/2/88
**TABULATION OF BIDS (Cont)**

**DOAN HALL CHILLER STATION RENOVATION**

<table>
<thead>
<tr>
<th>Bids Received</th>
<th>The Ohio State University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>October 5, 1988</td>
</tr>
<tr>
<td>Opened By</td>
<td>T. Bell</td>
</tr>
<tr>
<td>Tabulated By</td>
<td>R. Dunham</td>
</tr>
</tbody>
</table>

**MECHANICAL CONTRACT**

<table>
<thead>
<tr>
<th>Estimate of Cost</th>
<th>BASE BID</th>
<th>ALT M-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>$185,000.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Farber Corporation: $122,700.00 + $57,600.00
- Radico: 142,500.00 + 59,800.00
- Bruner Corporation: 155,700.00 + 61,414.00
- Julian Speer: 173,700.00 + 61,000.00

*Contract awarded this bidder including Alternate M-1.*
APPENDIX XIII

LEASE OF A .78 ACRE PARCEL AT DON SCOTT FIELD
TO THE CITY OF COLUMBUS FOR CONSTRUCTION OF A FIRE STATION

Adopted by Board of Trustees December 2, 1988
(See page 400)
Proposed Lease of a .78 Acre Parcel at Don Scott Field to the City of Columbus for Construction of a Fire Station

Office of Business and Administration
December 2, 1988
APPENDIX XIV

PURCHASE OF PROPERTY AT 1224 KINNEAR ROAD

Adopted by Board of Trustees December 2, 1988
(See page 402)
Proposed Purchase of Property at 1224 Kinnear Road

1224 Kinnear Road

West Campus Parking Lot

University Property

Kinnear Road

No True Scale

Office of Business and Administration
December 2, 1988
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbott, Kenneth M.</td>
<td>101</td>
</tr>
<tr>
<td>Akinseye, Patricia C.</td>
<td>99</td>
</tr>
<tr>
<td>Althouse, Paul G.</td>
<td>369</td>
</tr>
<tr>
<td>Andrew, James M.</td>
<td>189</td>
</tr>
<tr>
<td>Armendt, Bradley F.</td>
<td>188</td>
</tr>
<tr>
<td>Arnold, Robert L.</td>
<td>12</td>
</tr>
<tr>
<td>Austin, C. Grey</td>
<td>189</td>
</tr>
<tr>
<td>Austin, Carol D.</td>
<td>13</td>
</tr>
<tr>
<td>Babcock, Charles L.</td>
<td>187</td>
</tr>
<tr>
<td>Barone, John J.</td>
<td>5,184,246-248,273-275,361</td>
</tr>
<tr>
<td>Bauman, Harold D.</td>
<td>100</td>
</tr>
<tr>
<td>Bennett, William M.</td>
<td>237</td>
</tr>
<tr>
<td>Bentz, William F.</td>
<td>98</td>
</tr>
<tr>
<td>Berliner, L. Mark</td>
<td>99</td>
</tr>
<tr>
<td>Berquist, Goodwin F.</td>
<td>368</td>
</tr>
<tr>
<td>Berry, John W.</td>
<td>261-266</td>
</tr>
<tr>
<td>Bhowmik, Santi R.</td>
<td>14</td>
</tr>
<tr>
<td>Bickelhaupt, David L.</td>
<td>15</td>
</tr>
<tr>
<td>Biddle, James S.</td>
<td>15</td>
</tr>
<tr>
<td>Bigham, Jerry M.</td>
<td>14</td>
</tr>
<tr>
<td>Blackshire-Belay, Carol A.</td>
<td>188</td>
</tr>
<tr>
<td>Blaine, Harry R.</td>
<td>280</td>
</tr>
<tr>
<td>Bonagura, John D.</td>
<td>188</td>
</tr>
<tr>
<td>Bonnett, Dale T.</td>
<td>189</td>
</tr>
<tr>
<td>Boone, E. Milton</td>
<td>281</td>
</tr>
<tr>
<td>Borror, Donald J.</td>
<td>17</td>
</tr>
<tr>
<td>Bowser, Shirley D.</td>
<td>180,237,242-249,259-265</td>
</tr>
<tr>
<td>Brand, Myles</td>
<td>174,239,262-267,351,378</td>
</tr>
<tr>
<td>Breese, Mary Seaton</td>
<td>16</td>
</tr>
<tr>
<td>Brown, S. Earl</td>
<td>368</td>
</tr>
<tr>
<td>Burrows, Richard W.</td>
<td>99</td>
</tr>
<tr>
<td>Busch, Daryle H.</td>
<td>189</td>
</tr>
<tr>
<td>Butler, Roy L.</td>
<td>369</td>
</tr>
<tr>
<td>Canzoneri, Robert W.</td>
<td>169</td>
</tr>
<tr>
<td>Capriotti, Eugene R.</td>
<td>50-58</td>
</tr>
<tr>
<td>Cassady, John M.</td>
<td>351,352-360</td>
</tr>
<tr>
<td>Casto, Deborah E.</td>
<td>366,372</td>
</tr>
<tr>
<td>Chase, Shirley A.</td>
<td>369</td>
</tr>
<tr>
<td>Chen, Chung-Min</td>
<td>13</td>
</tr>
<tr>
<td>Chen, Xiaomei</td>
<td>188</td>
</tr>
<tr>
<td>Clausen, Kathryn P.</td>
<td>244</td>
</tr>
<tr>
<td>Cody, Robert J.</td>
<td>97</td>
</tr>
<tr>
<td>Cohen, Jeremy</td>
<td>98</td>
</tr>
<tr>
<td>Conroy, Charles W.</td>
<td>282</td>
</tr>
<tr>
<td>Cornhill, John Frederick</td>
<td>15</td>
</tr>
<tr>
<td>Countryman, James J.</td>
<td>11</td>
</tr>
<tr>
<td>Covert, Michael H.</td>
<td>2-4</td>
</tr>
<tr>
<td>Daubenmire, M. Jean</td>
<td>16</td>
</tr>
<tr>
<td>Davis, Walter A.</td>
<td>14</td>
</tr>
<tr>
<td>Demel, John T.</td>
<td>99</td>
</tr>
<tr>
<td>Disinger, John F.</td>
<td>98</td>
</tr>
<tr>
<td>Donoghue, Timothy R.</td>
<td>100</td>
</tr>
<tr>
<td>Drago, Joseph R.</td>
<td>12</td>
</tr>
<tr>
<td>Duncan, Donald L.</td>
<td>369</td>
</tr>
<tr>
<td>Duncan, James K.</td>
<td>18</td>
</tr>
<tr>
<td>Edse, Ilisedore M.</td>
<td>186</td>
</tr>
<tr>
<td>Engle, Alan W.</td>
<td>16</td>
</tr>
<tr>
<td>Fahey, Patrick J.</td>
<td>13</td>
</tr>
<tr>
<td>Ference, John W.</td>
<td>100</td>
</tr>
<tr>
<td>Fernie, David E.</td>
<td>14</td>
</tr>
<tr>
<td>Firebaugh, Francille M.</td>
<td>100,189</td>
</tr>
<tr>
<td>Foley, Joseph M.</td>
<td>187</td>
</tr>
<tr>
<td>Gaumer, Frank T.</td>
<td>370</td>
</tr>
<tr>
<td>Gels, Michael L.</td>
<td>99</td>
</tr>
<tr>
<td>Geistfeld, Loren V.</td>
<td>14,169</td>
</tr>
<tr>
<td>Ginter, James L.</td>
<td>13</td>
</tr>
<tr>
<td>Goel, Prem K.</td>
<td>98</td>
</tr>
<tr>
<td>Goleman, D. Lyle</td>
<td>15</td>
</tr>
<tr>
<td>Goss, David M.</td>
<td>279</td>
</tr>
<tr>
<td>Griffin, David A.</td>
<td>189</td>
</tr>
<tr>
<td>Growick, Bruce S.</td>
<td>368</td>
</tr>
<tr>
<td>Hale, Frank W., Jr.</td>
<td>280</td>
</tr>
<tr>
<td>Harris, Donald</td>
<td>12</td>
</tr>
<tr>
<td>Hausman, Hershel J.</td>
<td>280</td>
</tr>
<tr>
<td>Hebbard, Frederick W.</td>
<td>280</td>
</tr>
<tr>
<td>Heider, Lawrence E.</td>
<td>279</td>
</tr>
<tr>
<td>Herman, Lawrence</td>
<td>99</td>
</tr>
<tr>
<td>Hermann, Charles F.</td>
<td>187</td>
</tr>
<tr>
<td>Heywood, John L.</td>
<td>14</td>
</tr>
<tr>
<td>Hill, Richard M.</td>
<td>12</td>
</tr>
<tr>
<td>Hine, Jack</td>
<td>102</td>
</tr>
<tr>
<td>Hirth, John P.</td>
<td>100</td>
</tr>
<tr>
<td>Name</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Hoblet, Kent</td>
<td>15</td>
</tr>
<tr>
<td>Hollander, Jack</td>
<td>5,49,362</td>
</tr>
<tr>
<td>Hosler, Don M</td>
<td>100</td>
</tr>
<tr>
<td>Hough, John B</td>
<td>100</td>
</tr>
<tr>
<td>Hubbell, John A. E.</td>
<td>368</td>
</tr>
<tr>
<td>Huber, Joan</td>
<td>175-181</td>
</tr>
<tr>
<td>Hubin, Donald C</td>
<td>279</td>
</tr>
<tr>
<td>Hufford, Jack E</td>
<td>103</td>
</tr>
<tr>
<td>Hull, Mary F</td>
<td>16</td>
</tr>
<tr>
<td>Hunt, Fern E</td>
<td>100</td>
</tr>
<tr>
<td>Hunt, Ralph R</td>
<td>99</td>
</tr>
<tr>
<td>Ihrig, Weldon E</td>
<td>254,267</td>
</tr>
<tr>
<td>Immke, Leonard J</td>
<td>4,49,219, 226,250,360</td>
</tr>
<tr>
<td>Jackson, Rebecca D</td>
<td>14</td>
</tr>
<tr>
<td>Jackson, Richard D</td>
<td>342-351</td>
</tr>
<tr>
<td>Jastram, Philip S</td>
<td>368</td>
</tr>
<tr>
<td>Jennings, Edward H</td>
<td>57,58,93,182,237-238,240,241,244-248,259-266,316,348,350</td>
</tr>
<tr>
<td>Jewell, Karen Sue</td>
<td>14,100</td>
</tr>
<tr>
<td>Johnson, Clair A</td>
<td>16</td>
</tr>
<tr>
<td>Johnson, Ernest W</td>
<td>13</td>
</tr>
<tr>
<td>Jones, James E</td>
<td>260</td>
</tr>
<tr>
<td>Jost, Timothy</td>
<td>99</td>
</tr>
<tr>
<td>Jucius, Michael J</td>
<td>103</td>
</tr>
<tr>
<td>Kelsey, Richard C</td>
<td>16</td>
</tr>
<tr>
<td>Kenney, Martin F</td>
<td>279</td>
</tr>
<tr>
<td>Kerber, James E</td>
<td>100</td>
</tr>
<tr>
<td>Kern, C. William</td>
<td>267-273</td>
</tr>
<tr>
<td>Kessler, John W</td>
<td>250,351,361,365</td>
</tr>
<tr>
<td>Kinoshita, Masao</td>
<td>368</td>
</tr>
<tr>
<td>Kirk, Joyce F</td>
<td>188</td>
</tr>
<tr>
<td>Kohler, Erwin M</td>
<td>98</td>
</tr>
<tr>
<td>Krumm, Carol R</td>
<td>280</td>
</tr>
<tr>
<td>Kruzel, Joseph J</td>
<td>187</td>
</tr>
<tr>
<td>Kubayanda, Josaphat</td>
<td>98</td>
</tr>
<tr>
<td>Kuhn, Albert J</td>
<td>369</td>
</tr>
<tr>
<td>Lam, Pok-Sang</td>
<td>279</td>
</tr>
<tr>
<td>LaRue, Robert D</td>
<td>15</td>
</tr>
<tr>
<td>Lazarus, Charles Y</td>
<td>237,249</td>
</tr>
<tr>
<td>Lepeor, Peter M</td>
<td>99</td>
</tr>
<tr>
<td>Li, Ting Y</td>
<td>18</td>
</tr>
<tr>
<td>Mansfield, Harvey C</td>
<td>19</td>
</tr>
<tr>
<td>Matsumoto, Yoshiko</td>
<td>188</td>
</tr>
<tr>
<td>Mazzaferrti, Ernest L</td>
<td>13</td>
</tr>
<tr>
<td>McClanahan, Joseph C</td>
<td>16</td>
</tr>
<tr>
<td>McElrath, Miles K</td>
<td>100</td>
</tr>
<tr>
<td>McKenny, Patrick C</td>
<td>189</td>
</tr>
<tr>
<td>Meckstroth, Charles V</td>
<td>15</td>
</tr>
<tr>
<td>Meek, Devon M</td>
<td>280</td>
</tr>
<tr>
<td>Meeker, David L</td>
<td>368</td>
</tr>
<tr>
<td>Meeks, James E</td>
<td>316</td>
</tr>
<tr>
<td>Merchant, Dean C</td>
<td>100</td>
</tr>
<tr>
<td>Miggantz, Robert S</td>
<td>369</td>
</tr>
<tr>
<td>Mikolajcik, Emil M</td>
<td>369</td>
</tr>
<tr>
<td>Milburn, Thomas W</td>
<td>99,280</td>
</tr>
<tr>
<td>Miller, David N</td>
<td>187</td>
</tr>
<tr>
<td>Miller, Duane D</td>
<td>97</td>
</tr>
<tr>
<td>Miller, Richard A</td>
<td>370</td>
</tr>
<tr>
<td>Moser, Bobby D</td>
<td>12</td>
</tr>
<tr>
<td>Mowoe, Isaac J</td>
<td>368</td>
</tr>
<tr>
<td>Muesig, Raymond H</td>
<td>15</td>
</tr>
<tr>
<td>Murphy, James L</td>
<td>14</td>
</tr>
<tr>
<td>Myers, John C</td>
<td>369</td>
</tr>
<tr>
<td>Newman, Howard A. I</td>
<td>368</td>
</tr>
<tr>
<td>Nichols, James L</td>
<td>233-236,238,248-250</td>
</tr>
<tr>
<td>Nishikawara, Margaret T</td>
<td>369</td>
</tr>
<tr>
<td>Notari, Robert E</td>
<td>100</td>
</tr>
<tr>
<td>Noyes, David H</td>
<td>369</td>
</tr>
<tr>
<td>Ogle, Crichton L</td>
<td>279</td>
</tr>
<tr>
<td>Oproncak, E. Mitchell</td>
<td>369</td>
</tr>
<tr>
<td>Ottolenghi, Abramo C</td>
<td>99</td>
</tr>
<tr>
<td>Pathak, Dev S</td>
<td>98</td>
</tr>
<tr>
<td>Paulowich, David G</td>
<td>13</td>
</tr>
<tr>
<td>Pearce, James M., Jr.</td>
<td>188</td>
</tr>
<tr>
<td>Pollins, Brian M</td>
<td>15</td>
</tr>
<tr>
<td>Ray, Edward J</td>
<td>13</td>
</tr>
<tr>
<td>Reisch, Kenneth W</td>
<td>368</td>
</tr>
<tr>
<td>Rhee, Wansoo T</td>
<td>99</td>
</tr>
<tr>
<td>Riedl, John O</td>
<td>97</td>
</tr>
<tr>
<td>Robertson, Claire</td>
<td>188</td>
</tr>
<tr>
<td>Rockwell, Thomas H</td>
<td>15</td>
</tr>
<tr>
<td>Rosow, Lois Ann</td>
<td>99</td>
</tr>
<tr>
<td>Rubin, Karl C</td>
<td>279</td>
</tr>
<tr>
<td>Ruh, Ernst</td>
<td>279</td>
</tr>
<tr>
<td>Rund, Douglas A</td>
<td>13</td>
</tr>
<tr>
<td>Sadayappan, P</td>
<td>188</td>
</tr>
</tbody>
</table>
Schroeder, Wayne E................................ 369
Schuller, David E ........................................ 13
Seno Hauser, Donald A................................. 13
Shigemitsu, Junko ........................................ 188
Shoemaker, Daryl S..................................... 189
Sills, Grayce M........................................... 13
Silverberg, Alice ..................................... 279
Silverman, Allan J ...................................... 188
Smiley, Sue Louise .................................... 190
Smith, Charles W. .................................... 16
Snyder, Jane M........................................... 13
St. Pierre, George R................................... 98
St. Pierre, Ronald L.................................... 229-233,237-245
Staley, Leo G........................................... 20
Stanton, Robert J........................................ 14
Stearn, Robert.......................................... 12
Still, Steven M.......................................... 98
Stuessy, Tod F.......................................... 98
Stull, Robert J.......................................... 100
Stulz, Rene M........................................... 187
Swain, Marshall W.................................... 13
Sweet, Walter C........................................ 280
Sylvan, Donald A........................................ 14
Syverson, Aldrich...................................... 371

T

Taylor, Richard L...................................... 100
Teaford, Hamilton J.................................183,185,233,238,
241-251,260-264,272,
347-350,355,366,378
Tejwani, Gopi A......................................... 15
Teller, Ellen D........................................... 369
Temple, Patricia C..................................... 369
Thomas, Cloe C......................................... 191
Thompson, David D.................................... 59
Thompson, Larry R..................................... 316
Touse, Robert D.......................................... 16
Turner, JoAnne H...................................... 368
Tzagournis, Manuel.................................... 226-229,236

U

V

VanStavern, Bobby Dale............................ 369
Varandyan, Emmanuel P.............................. 104
Vivian, Virginia M.................................... 100
von Haam, Emmerich, Sr............................. 20

W

Wada, Walter W........................................ 280
Waldman, Marilyn R................................... 13
Walker, Anthony R..................................... 15
Wall, Lida G............................................. 98
Wallace, Helen L...................................... 16
Warmbrod, Catharina P............................... 280
Warner, James H....................................... 283
Webber, Sabra J........................................ 188
**GENERAL INDEX**

1988-1989 Minutes

**Volume 1**

A

<table>
<thead>
<tr>
<th>Academic Affairs Committee Report</th>
<th>366</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adkins, Miriam Ruggles, Pickaway County Scholarship Fund (The)</td>
<td>134</td>
</tr>
<tr>
<td>Advanced CardioSystems, Inc., Mountain View, CA</td>
<td>302</td>
</tr>
<tr>
<td>Advanced Decision Systems, Mountain View, CA</td>
<td>297</td>
</tr>
<tr>
<td>Advantage Electric Inc., Toledo, OH</td>
<td>40</td>
</tr>
<tr>
<td>Advantage Electric, Columbus, OH</td>
<td>218</td>
</tr>
<tr>
<td>Agricultural Affairs Committee Report</td>
<td>378</td>
</tr>
<tr>
<td>Agriculture, Department of, Animal and Plant Health Inspection Service, Mooresown, NJ</td>
<td>385</td>
</tr>
<tr>
<td>Agriculture, Department of, Economic Research Service, Washington, DC</td>
<td>142</td>
</tr>
<tr>
<td>Agriculture, Department of, Farmers Home Administration, Washington, DC</td>
<td>196</td>
</tr>
<tr>
<td>Agriculture, Department of, Forest Service, Broomall, PA</td>
<td>290, 294, 385</td>
</tr>
<tr>
<td>Agriculture, Department of, Forest Service, Princeton, WV</td>
<td>142</td>
</tr>
<tr>
<td>Agriculture, Department of, Science and Education, Peoria, IL</td>
<td>23, 201, 293, 382</td>
</tr>
<tr>
<td>Agriculture, Department of, Science and Education, Washington, DC</td>
<td>112, 120, 138, 196, 197, 201, 288-291, 383</td>
</tr>
<tr>
<td>Agriculture, Department of, Soil Conservation Service, Washington, DC</td>
<td>386</td>
</tr>
<tr>
<td>Air Force, Department of the, Air Force Systems Command, Bolling Air Force Base, DC</td>
<td>26, 116, 117, 142, 383</td>
</tr>
<tr>
<td>Air Force, Department of the, Air Force Systems Command, Wright-Patterson Air Force Base, OH</td>
<td>24, 199, 201</td>
</tr>
<tr>
<td>AITRC, Columbus, OH</td>
<td>150, 303</td>
</tr>
<tr>
<td>Alcoa Defense Systems, Inc., San Diego, CA</td>
<td>144</td>
</tr>
<tr>
<td>Allison, Melissa (Student)</td>
<td>265</td>
</tr>
<tr>
<td>American Academy of Facial Plastic and Reconstructive Surgery Foundation, Washington, DC</td>
<td>300</td>
</tr>
<tr>
<td>American Agricultural Economics Association, Ames, IA</td>
<td>148</td>
</tr>
<tr>
<td>American Animal Hospital Association, Denver, CO</td>
<td>390</td>
</tr>
<tr>
<td>American Association for Clinical Chemistry, Inc., Washington, DC</td>
<td>391</td>
</tr>
<tr>
<td>American Association of Retired Persons, Washington, DC</td>
<td>147</td>
</tr>
<tr>
<td>American Cancer Society, New York, NY</td>
<td>124, 125, 298</td>
</tr>
<tr>
<td>American Cancer Society, Ohio Division, Inc., Dublin, OH</td>
<td>207</td>
</tr>
<tr>
<td>American Chemical Society, Washington, DC</td>
<td>32</td>
</tr>
<tr>
<td>American Council of Learned Societies, New York, NY</td>
<td>391</td>
</tr>
<tr>
<td>American Diabetes Association, Inc., Alexandria, VA</td>
<td>147, 207</td>
</tr>
<tr>
<td>American Dietetic Association Foundation, Chicago, IL</td>
<td>390</td>
</tr>
<tr>
<td>American Electric Power Service Corp., Columbus, OH</td>
<td>301</td>
</tr>
<tr>
<td>American Federation for Aging Research - Ohio Affiliate, Columbus, OH</td>
<td>129</td>
</tr>
<tr>
<td>American Heart Association, Dallas, TX</td>
<td>31, 125, 389</td>
</tr>
<tr>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, OH</td>
<td>125-129, 147, 148, 298</td>
</tr>
<tr>
<td>American Institute of Indian Studies, Minneapolis, MN</td>
<td>297</td>
</tr>
<tr>
<td>American Lung Association of Ohio, Columbus, OH</td>
<td>128, 148</td>
</tr>
<tr>
<td>American Lung Association, New York, NY</td>
<td>146, 147</td>
</tr>
<tr>
<td>American Society of Hospital Pharmacists Research and Education Foundation, Inc., Bethesda, MD</td>
<td>300</td>
</tr>
<tr>
<td>AmeriFlora '92 Bioccontainment Facility</td>
<td>156</td>
</tr>
<tr>
<td>AmeriFlora '92 Technology and Horticultural Information Center</td>
<td>214</td>
</tr>
<tr>
<td>Ameritech Corporation, Arlington Heights, IL</td>
<td>206</td>
</tr>
<tr>
<td>Applied Information Technologies Research Center, Columbus, OH</td>
<td>125, 132</td>
</tr>
<tr>
<td>Aries/C.H. &amp; V. Joint Venture, Columbus, OH</td>
<td>218</td>
</tr>
<tr>
<td>Army, Department of the, Army Corps of Engineers, Fort Belvoir, VA</td>
<td>143, 292</td>
</tr>
</tbody>
</table>
Army, Department of the, Army Corps of Engineers, Huntsville, AL........................................... 117
Army, Department of the, Army Corps of Engineers, Vicksburg, MS........................................ 113
Army, Department of the, Army Materiel Command, Redstone Arsenal, AL............................... 289
Army, Department of the, Army Research Office, Research
Triangle Park, NC.................................................................................................................. 199,383
Arthritis Foundation - Central Ohio Chapter, Columbus, OH......................................................... 127
Arts Midwest, Minneapolis, MN.................................................................................................... 130
Arundale, Inc., Fenton, MO........................................................................................................... 30
AT&T Bell Laboratories, Columbus, OH.......................................................................................... 388
AT&T Foundation, New York, NY.................................................................................................. 131
Athletic Maintenance Building - North Athletic Facility............................................................... 215
Authorization for Designated Officials to Buy, Sell, Assign and Transfer Securities, to Deposit or Withdraw Funds from Bank Accounts, and to Designate Depositories........................................................................ 166
Authorization for the Treasurer of the University to Serve as Trustee for Unitrusts and Annuity Trusts ........................................................................................................... 167
Avant Contractor Inc., Columbus, OH............................................................................................ 399
Aviation Academic Facility.................................................................................................................. 396

B

Barker, Judy (University Hospitals Board).......................................................................................... 96
Battelle Columbus Division, Columbus, OH................................................................................... 302,303
Battelle Columbus Labs, Columbus, OH........................................................................................... 312,313
Battelle Memorial Institute, Columbus, OH..................................................................................... 128,207,208,298
Bausch and Lomb, Rochester, NY.................................................................................................... 145
Beautyview Court, 760, Columbus, OH........................................................................................... 45
Bell Helicopter, Fort Worth, TX......................................................................................................... 392
Bennett, William M. (University Hospitals Board)........................................................................... 96
Binkovitz, Harry, and Lachie Kline Award Fund (The)................................................................... 212
Black Cultural Center......................................................................................................................... 276
Board of Trustees Committee Structure.......................................................................................... 360
Boeing Advanced Systems Company, Seattle, WA........................................................................ 204
Boeing Aerospace Company, Seattle, WA....................................................................................... 145
Boeing Computer Services, Seattle, WA........................................................................................... 123
Boston University, Boston, MA........................................................................................................ 124
Bowling Green State University, Bowling Green, OH................................................................... 299
Boyer, Ralph L., Award for Excellence in Engineering Instruction
Fund (The)........................................................................................................................................ 152
Bradford Commons Remodeling...................................................................................................... 217
Branson Ultrasonics Corp., Danbury, CT......................................................................................... 301
Bridwell, Richard E., Fund (The)....................................................................................................... 213
Brookhaven National Laboratory, Upton, Long Island, NY.......................................................... 31
Bruner Corp., Columbus, OH............................................................................................................. 39
Brunswick Corporation, Marion, VA.................................................................................................. 29,145
Buckeye Electric Co., Dayton, OH.................................................................................................... 38
Budget - 1988-89 Current Funds, Quarterly Reports....................................................................... 316
Burroughs Wellcome, Research Triangle Park, NC......................................................................... 145,295
Byers Realty, Inc................................................................................................................................ 402
Bylaws of the University Hospitals Board....................................................................................... 9

C

C. W. Construction, Columbus, OH.................................................................................................... 218
California, University of, Livermore, CA.......................................................................................... 298
California, University of, Santa Barbara, CA................................................................................... 32
California State Beekeepers Association, Inc., Red Bluff, CA....................................................... 208
Canaga, Wilbur Waite, Memorial Fund (The).................................................................................. 137
Cancer Therapy and Research Foundation of South Texas, San Antonio, TX................................ 130,149,208,390
Capital University, Columbus, OH ................................................................. 298
Catawba Valley Community College, Hickory, NC ......................................... 130
Central Service Building Renovation ............................................................... 36
Ceramic Engineering, Department of ................................................................. 7
CeramPhysics, Inc., Westerville, OH ................................................................. 30,123
Chartwell Technologies, Inc., Columbus, OH .................................................. 145,295-297
Chen, Shih-Yuan Michael, Scholarship Fund .................................................... 34
Cheng Development, Inc., San Diego, CA ........................................................ 392
Chicago, University of, Argonne, IL ................................................................. 300,388
Children's Hospital Research Foundation, Columbus, OH ............................... 32,124,300
Chrysler Corp., Detroit, MI ............................................................................. 392
Chrysler Motors, Highland Park, MI ................................................................. 150,301
Church and Dwight, Inc., Princeton, NJ .......................................................... 145
Churchill Construction, Lima, OH ................................................................. 161
CIBA-GEIGY Corporation, Greensboro, NC ................................................... 297
CIBA-GEIGY Corporation, Summit, NJ ........................................................... 205,297
Cleveland Construction, Mentor, OH ............................................................. 37
Cohen, A. B., Dolly and Ralph, Scholarship Fund ............................................. 150
Coherin Research Foundation, Dresden, ME .................................................. 206
Colorado Public Utilities Commission (The), Denver, CO ................................ 299
Columbia Gas - University Honors Scholarship Endowment Fund ................... 34
Columbus, City of, Lease of Land to ................................................................ 400
Columbus Metropolitan Housing Authority, Columbus, OH ............................ 146
Columbus Project ....................................................................................... 50,58
Columbus Southern Power Company ............................................................. 220
Columbus State Community College, Columbus, OH ...................................... 299
Columbus Zoo, Powell, OH ............................................................................ 389
Commerce, Department of, National Bureau of Standards, Gaithersburg, MD ................................................................. 291
Commerce, Department of, National Oceanic and Atmospheric Administration, Rockville, MD ................................................................. 144,381
Committee Structure, Board of Trustees ......................................................... 360
Concept Construction Co., Columbus, OH ....................................................... 39,398
Conover Company, Limited, (The), Omro, WI ............................................... 387
Continental Acquisitions, Inc. ......................................................................... 162
Cornell University, Ithaca, NY ...................................................................... 149
Corporation for Public Broadcasting, Washington, DC ................................... 208
Council on Library Resources, Washington, DC ........................................... 130
Croson, J. A., Co., Columbus, OH .................................................................. 37,39

D

Dairy Barn Improvements - OARDC .................................................................. 162
Danforth Foundation, St. Louis, MO ................................................................. 390
Datascope Corporation, Oakland, NJ ............................................................... 297
Defense, Department of, Defense Advanced Research Projects Agency, Arlington, VA ................................................................. 381
Defense, Department of, Maryland Procurement Office, Fort George G. Meade, MD ................................................................................. 386
Defense, Department of, National Security Agency, Fort George G. Meade, MD ................................................................................. 200
Degree Program, New - Ph.D. Degree Program in Neuroscience ...................... 6
Degrees and Certificates .................................................................................. 11,277
Delco Moraine, Dayton, OH ........................................................................... 392
Dependent Fee Authorization Program ............................................................ 164
Dibert, Steve ................................................................................................... 373
Digital Equipment Corporation, Marlboro, MA ................................................. 29
Distinguished Service Award ............................................................................ 186
Doan Hall - Chiller Station Renovation ............................................................ 158,399
<table>
<thead>
<tr>
<th>E</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Retirement Incentive Program, Modification of the PERS</td>
<td>48</td>
</tr>
<tr>
<td>Early Retirement Incentive Program, Modification of the STRS</td>
<td>48</td>
</tr>
<tr>
<td>Earth Resources, Limited, Silver Spring, MD</td>
<td>387</td>
</tr>
<tr>
<td>Easter Seal Research Foundation, Chicago, IL</td>
<td>46,47,220</td>
</tr>
<tr>
<td>Edison, Thomas A., Program, Columbus, OH</td>
<td>126</td>
</tr>
<tr>
<td>Edison Welding Institute, Columbus, OH</td>
<td>301,391</td>
</tr>
<tr>
<td>Edse, Isedore M. (Distinguished Service Award)</td>
<td>186</td>
</tr>
<tr>
<td>Education, Department of, Washington, DC</td>
<td>24,110,113,289,382,383</td>
</tr>
<tr>
<td>Education, Department of, Office of Educational Research and Improvements, Washington, DC</td>
<td>141,384</td>
</tr>
<tr>
<td>Education, Department of, Office of Postsecondary Education, Washington, DC</td>
<td>23,26,111,141,195,196,289,291</td>
</tr>
<tr>
<td>Education, Department of, Office of Special Education and Rehabilitation Services, Washington, DC</td>
<td>23,112,114,115,290,381-384</td>
</tr>
<tr>
<td>Embassy of Egypt, Washington, DC</td>
<td>391,392</td>
</tr>
<tr>
<td>Employee Education/Self-Improvement Program</td>
<td>163</td>
</tr>
<tr>
<td>Employment of Architects/Engineers and Request for Construction Bids</td>
<td>36,155,156</td>
</tr>
<tr>
<td>EMTEC, Kettering, OH</td>
<td>391,392</td>
</tr>
<tr>
<td>Energy, Department of, Argonne, IL</td>
<td>23,25,113,115,117,138,199</td>
</tr>
<tr>
<td>Energy, Department of, Idaho Falls, ID</td>
<td>121,289,291,382,383</td>
</tr>
<tr>
<td>Energy, Department of, Pittsburgh Energy Technology Center, Pittsburgh, PA</td>
<td>25</td>
</tr>
<tr>
<td>Energy, Department of, Washington, DC</td>
<td>116</td>
</tr>
<tr>
<td>Energy and Environmental Research Corporation, Irvine, CA</td>
<td>205,387</td>
</tr>
<tr>
<td>Engineering and Economics Research Inc., Vienna, VA</td>
<td>393</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>131,150,208,302,391</td>
</tr>
<tr>
<td>Enrollment - Autumn Quarter 1988</td>
<td>254-267</td>
</tr>
<tr>
<td>Environmental Protection Agency, Chicago, IL</td>
<td>386</td>
</tr>
<tr>
<td>Environmental Protection Agency, Washington, DC</td>
<td>195,290</td>
</tr>
<tr>
<td>EPRI, Palo Alto, CA</td>
<td>302</td>
</tr>
<tr>
<td>Ethicon, Inc., Somerville, NJ</td>
<td>123</td>
</tr>
<tr>
<td>Expenses for Designated Administrative Officials - Report</td>
<td>167</td>
</tr>
<tr>
<td>Express Electric Co., Columbus, OH</td>
<td>42</td>
</tr>
<tr>
<td>Exxon Company, International, Houston, TX</td>
<td>29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Farber Corporation, Columbus, OH</td>
<td>216,400</td>
</tr>
<tr>
<td>Feed Store (The), Columbus, OH</td>
<td>146</td>
</tr>
<tr>
<td>Fernbank, Inc., Atlanta, GA</td>
<td>206</td>
</tr>
<tr>
<td>Fidia, Abano Terme (PD), Italy</td>
<td>205</td>
</tr>
<tr>
<td>Fight for SIGHT, Inc., Baltimore, MD</td>
<td>129,148</td>
</tr>
<tr>
<td>Fiscal Affairs Committee Report</td>
<td>379</td>
</tr>
<tr>
<td>Florida International University, Miami, FL</td>
<td>207</td>
</tr>
<tr>
<td>FMC Corporation, Philadelphia, PA</td>
<td>123</td>
</tr>
<tr>
<td>Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, OH</td>
<td>124,130,390</td>
</tr>
<tr>
<td>Fullington, James F., Memorial Fund (The)</td>
<td>154</td>
</tr>
</tbody>
</table>
G

GAC International, Central Islip, NY ................................................................. 206
Gallipolis Developmental Center, Gallipolis, OH .................................................. 129
GAR Foundation ........................................................................................................ 367
Gas Research Institute, Chicago, IL ........................................................................... 131
General Electric Company, Cincinnati, OH ......................................................... 34,144,145, 150,302,303,391
General Electric, Schenectady, NY ................................................................................... 302
General Motors Corporation, Columbus, OH ............................................................. 204
General Motors Corporation, Flint, MI ........................................................................ 150
General Motors Corporation, Warren, MI ................................................................. 302
Georges, Robert E., Scholarship Fund (The) ................................................................... 305
Getty Center for Education in the Arts, Los Angeles, CA ......................................... 31,146
Gleason Memorial Fund, Rochester, NY ........................................................................ 147
Glimcher, Dee Dee, Lecture Fund (The) ....................................................................... 136
Gloeckner, Fred, Foundation, Inc. (The), New York, NY ........................................... 148
Grape Research Facility - Ohio Agricultural Research and Development Center ............... 42
Greentree Enterprises, Inc. .......................................................................................... 45
Gregory, Ian, Psychiatric Lectureship Fund (The) ....................................................... 135
Guy, J. A., Dublin, OH ................................................................................................. 398

H

Hale, Frank W., Black Cultural Center (The) ............................................................. 276
Hamilton Hall Renovation ........................................................................................... 157
Harrisburg Pike, 92.6 Acres on, Columbus, OH ......................................................... 219
Hathaway, Marilyn R., Education Scholarship Fund (The) ......................................... 393
Have, Inc., Ashtabula, OH ........................................................................................... 42
Hays, Charles Richard, Memorial Scholarship Fund (The) ......................................... 306
Health and Human Services, Department of, Office of Human Development Services, Washingto
DC ................................................................................................................................. 288
Health and Human Services, Department of, Office of Human Development, Administration of Children, Youth and Families, Chicago, IL .......................................................... 292
Health and Human Services, Department of, Office of Human Development Services, Administration on Developmental Disabilities, Kansas City, MO ................................................................................................................................. 138
Health and Human Service, Department of, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, MD ................................................................. 110,113,114,139,140, 194,288,381-382,384
Health and Human Service, Department of, Public Health Service, Food and Drug Administration, Rockville, MD ....................................................................................... 384
Health and Human Services, Department of, Public Health Service, Health Resources and Services Administration, Rockville, MD ............................................................... 115,116,118-120,194,288
Healthcare Financial Management Association, Westchester, IL ................................ 146
Health Sciences Library ............................................................................................... 95
Helsel, Valerie, Scholarship Fund (The) ..................................................................... 153
Hildegarz Doerenkamp-Gerhard Foundation 1, Chur, Switzerland ................................ 299
Holdridge Mechanical Inc., Columbus, OH ................................................................. 216
Honda of America Manufacturing, Inc., Marysville, OH ............................................... 29
Honorary Degree ......................................................................................................... 278
Hospitality Management Research Fund (The) .......................................................... 304
<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitals Board, Joint Meeting with Board of Trustees</td>
</tr>
<tr>
<td>Hospitals Board Appointment</td>
</tr>
<tr>
<td>Hospitals Board Committee Report</td>
</tr>
<tr>
<td>Hospitals Strategic Plan</td>
</tr>
<tr>
<td>Howlett, Freeman S., Memorial Fellowship Fund (The)</td>
</tr>
<tr>
<td>IBM Technical Interchange Program, Owego, NY</td>
</tr>
<tr>
<td>ICRA, Inc., New York, NY</td>
</tr>
<tr>
<td>Illinois, University of, Urbana, IL</td>
</tr>
<tr>
<td>Indiana Department of Mental Health, Indianapolis, IN</td>
</tr>
<tr>
<td>Indiana Government, Jakarta, Indonesia</td>
</tr>
<tr>
<td>Ingram-White Castle Foundation, Columbus, OH</td>
</tr>
<tr>
<td>Ingram-White Castle Scholarship Endowment Fund (The)</td>
</tr>
<tr>
<td>Institute of Gas Technology, Chicago, IL</td>
</tr>
<tr>
<td>Interior, Department of the, Bureau of Mines, Washington, DC</td>
</tr>
<tr>
<td>Interior, Department of the, Geological Survey, Reston, VA</td>
</tr>
<tr>
<td>Interior, Department of the, National Park Service, Omaha, NE</td>
</tr>
<tr>
<td>Interior, Department of the, Office of Surface Mining Reclamation and Enforcement, Pittsburgh, PA</td>
</tr>
<tr>
<td>International Business Machines Corporation, Yorktown Heights, NY</td>
</tr>
<tr>
<td>International Center for Industry, Labor and Rehabilitation, Dublin, OH</td>
</tr>
<tr>
<td>Investments Committee Report</td>
</tr>
<tr>
<td>Investments Portfolio, University's</td>
</tr>
<tr>
<td>Iowa State University, Ames, IA</td>
</tr>
<tr>
<td>Jennings, Martha Holden, Foundation, Shaker Heights, OH</td>
</tr>
<tr>
<td>Johnson, Robert Wood, Foundation, Princeton, NJ</td>
</tr>
<tr>
<td>Jones, Wilbur W. (University Hospitals Board)</td>
</tr>
<tr>
<td>Kaiser Aluminum Corporation, Ravenswood, WV</td>
</tr>
<tr>
<td>Kansas, University of (The), Lawrence, KS</td>
</tr>
<tr>
<td>Keller, Helen, National Center for Deaf-Blind Youth and Adults, Sands Point, NY</td>
</tr>
<tr>
<td>Keller, Jon F. (Student)</td>
</tr>
<tr>
<td>Kennedy, Carol S., Trust</td>
</tr>
<tr>
<td>Kennedy, Lucile and Roland, Scholarship Fund in Dairy Science (The)</td>
</tr>
<tr>
<td>Kennedy, Lucile and Roland, Scholarship Fund in Home Economics (The)</td>
</tr>
<tr>
<td>Kennedy, Roland, Scholarship Fund in Dairy Science (The)</td>
</tr>
<tr>
<td>Kennedy, Roland, Scholarship Fund in Home Economics (The)</td>
</tr>
<tr>
<td>Kinnear Road - 1224, Columbus, OH</td>
</tr>
<tr>
<td>Klingenstein Fund, New York, NY</td>
</tr>
<tr>
<td>Labor, Department of, Bureau of International Labor Affairs, Washington, DC</td>
</tr>
<tr>
<td>Labor, Department of, Bureau of Labor Statistics, Washington, DC</td>
</tr>
<tr>
<td>Labor, Department of, Employment and Training Administration, Washington, DC</td>
</tr>
<tr>
<td>Lambacher, Helen Simpson, Fund (The)</td>
</tr>
<tr>
<td>Land-O-Lakes Research Farm, Webster City, IA</td>
</tr>
<tr>
<td>Leases</td>
</tr>
</tbody>
</table>
M & P Construction, Gahanna, OH ................................................................. 216
MacArthur, John D. and Catherine T., Foundation, Chicago, IL ................ 129
Maine, University of, at Orono, Orono, ME .............................................. 299
Mandeville, Lincoln T., Plumbing, Columbus, OH ................................. 41
March of Dimes Birth Defects Foundation, White Plains, NY .............. 33
Marco Plumbing and Heating Co., Columbus, OH ................................. 41
Marion Laboratories, Inc., Kansas City, MO .............................................. 29
Marks, William J., Pharmacy Memorial Scholarship Fund (The) .......... 152
Marshall, Andrew W. (Honorary Degree) ................................................. 278
Martin Marietta Corporation, Oak Ridge, TN ............................................. 29,30
Materials Science and Engineering, Department of ................................ 7
McCormick, Francis B. ................................................................................ 46
McCormick, Marie Orton ......................................................................... 46
McCrae & Power Plant and Parks Hall Roof Replacements and Masonry Repair ............................................................................. 160
McDonnell Aircraft Company, St. Louis, MO ......................................... 131
McDonnell Douglas, St. Louis, MO .......................................................... 392
Merger of Two Departments .................................................................. 7
MerryMakers Club of Columbus, Inc., Endowment Fund ...................... 211
Metallurgical Engineering, Department of ............................................... 7
Midwest Universities Consortium for International Activities, Inc., ... 30,123,147,389
Mission Research Corporation, Santa Barbara, CA ............................... 205
Missouri Division of Corrections/Human Resources, Jefferson City, MO 130
Mitre Corporation, Bedford, MA .............................................................. 303
Mobil R&D Corp., Princeton, NJ ............................................................... 392
Mobil Research and Development Corporation, Paulsboro, NJ .......... 145
Montgomery Elevator Co., Cincinnati, OH ............................................... 40
Morris Animal Foundation, Englewood, CO ......................................... 207
Motorola, Inc., Schaumburg, IL ................................................................. 29
Muscular Dystrophy Association, New York, NY .................................... 125
Musgrave, Roger ....................................................................................... 374

N

Nailing of Buildings ....................................................................................... 95,96
Naming of Center ....................................................................................... 276
National Academy of Science, Washington, DC ...................................... 118
National Aeronautics and Space Administration, Washington, DC ..... 110,116,119,143,288,386
National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA ................................................................. 118,289,291
National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD ...................................................... 116,120,141,198
National Aeronautics and Space Administration, Langley Research Center, Hampton, VA ................................................................. 110,115,201,294,384
National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH ................................................................. 110,292,384-386
National Association of Regulatory Utility Commissioners, Washington, DC .......................................................................................... 388
National Council for Soviet and East European Research (The), Washington, DC .................................................................................. 31
National Council of Teachers of English, Urbana, IL ............................ 130
National Dairy Promotion and Research Board, Logan UT ................. 124
National Foundation for Ileitis and Colitis, New York, NY .................................................. 146
National Foundation for the Arts and Humanities, National Endowment for the Humanities, Washington, DC .......................................................... 196,288,292
National Institute for Dispute Resolution, Washington, DC ........................................................................ 32
National Parkinson Foundation, Miami, FL .................................................................................. 127
National Science Foundation, Washington, DC ........................................................................ 23-28,111-120,139-143,194,195,197-202,289-292,384-386
National Security Council, Central Intelligence Agency, Washington, DC ............................................ 115
Nature Conservancy (The), Arlington, VA .................................................................................. 207
Nature Conservancy (The), Columbus, OH .................................................................................. 31
Navy, Department of the, Naval Material Command, Bethesda, MD ......................................................... 119
Navy, Department of the, Naval Material Command, China Lake, CA ................................................. 141,143
Navy, Department of the, Naval Postgraduate School, Monterey, CA ................................................ 143
Navy, Department of the, Office of Naval Research, Arlington, VA ................................................... 24,26,118,196,198,384
Navy, Department of the, Office of Naval Research, Washington, DC ............................................ 26,385
Nebraska Department of Education, Lincoln, NE ............................................................................ 130
Neil, Hannah, Center for Children, Columbus, OH ........................................................................ 125
NeoRx Corporation, Columbus, OH ...................................................................................... 204,204
NeoRx Corporation, Seattle, WA ............................................................................................... 204
Neuropsychiatric Facility ........................................................................................................... 155
Neuroscience, Ph.D., New Degree Program in .................................................................................. 6
Noble, Samuel Roberts, Foundation, Inc. (The), Ardmore, OK ......................................................... 128
Non-Mandatory Transfer from Current Funds - Fiscal Year 1987-88 ............................................. 303-315
North Atlantic Treaty Organization, Brussels, Belgium .................................................................... 148,149,208,389
North Carolina State Department of Public Instruction, Raleigh, NC .................................................. 149
North Central Regional Center for Rural Development, Ames, IA .................................................... 706
North Star Road, Zoning Matters on .............................................................................................. 90
Northwestern University, Evanston, IL ......................................................................................... 299
Norwich-Eaton Pharmaceuticals, Inc., Norwich, NY ..................................................................... 122,388

O

OARDC, Dairy Barn Improvements ............................................................................................... 162
Oakland Schools, Pontiac, MI ........................................................................................................ 300
Ohio - State of, Board of Regents, Columbus, OH ........................................................................... 203,294,295
Ohio - State of, Department of Aging, Columbus, OH ..................................................................... 121
Ohio - State of, Department of Commerce, Columbus, OH ............................................................... 121
Ohio - State of, Department of Development, Columbus, OH ................................................................... 121
Ohio - State of, Department of Education, Columbus, OH ................................................................... 121
Ohio - State of, Department of Health, Columbus, OH ....................................................................... 121
Ohio - State of, Department of Human Services, Columbus, OH ...................................................... 28,286
Ohio - State of, Department of Mental Health, Columbus, OH ........................................................... 121,203,204,294,386
Ohio - State of, Department of Mental Retardation and Developmental Disabilities, Columbus, OH .......................................................................................... 387
Ohio - State of, Department of Natural Resources, Columbus, OH ...................................................... 28,121,122,203,204,294
Ohio - State of, Department of Public Utilities Commission, Columbus, OH ....................................... 144
Ohio - State of, Ohio Arts Council, Columbus, OH ........................................................................... 28,294,295
Ohio - State of, Ohio Humanities Council, Columbus, OH .................................................................. 28,144
Ohio Air Quality Development Authority, Columbus, OH .................................................................... 33
Ohio Bell Telephone Company ......................................................................................................... 46,47
Ohio Cancer Research Associates, Columbus, OH ........................................................................ 147,389
Ohio Coal Development Office, Columbus, OH ............................................................................... 301,391
Ohio Dairy Goat Association, Galena, OH ............................................................................................. 149
Ohio Department of Transportation, Columbus, OH ........................................................................... 301
Ohio Department of Transportation, Transfer of Jurisdiction ......................................................... 44
Ohio Dominican College, Columbus, OH ............................................................................................. 298
Ohio Industrial Commission, Columbus, OH ..................................................................................... 33,301
Ohio Pork Producers Council, Westerville, OH ................................................................. 32,33,390
Ohio Public Facilities Commission, Compliance with Regulations of the....................... 165
Ohio River Basin Consortium, Columbus, OH ............................................................... 129
Ohio Safety Belt Network, Inc., Columbus, OH ............................................................ 300
Ohio Stadium - Refinish Exposed Structural Steel ......................................................... 159
Ohio State University Campaign (The) - Report ......................................................... 154,286
Ohio State University Development Fund (The) - Report ........................................... 287,361
Ohio State University Family Scholarship Fund (The) .................................................. 134
Ohio State University Hospitals Board Committee Report (The) ................................ 2
Ohio State University Research Foundation Committee Report .................................... 5,361,660
Ohio Union, Lease of Space ............................................................................................ 45
Ohio University, Athens, OH .......................................................................................... 124,389
Operation Crossroads Africa, Inc., New York, NY ....................................................... 300
Oral-B Laboratories, Redwood City, CA ......................................................................... 30
Ortho Pharmaceutical Corporation, Raritan, NJ ............................................................... 296
Otterbein College, Westerville, OH .................................................................................. 300
Owens-Illinois, Columbus, OH ........................................................................................ 123

P

Paint Valley Mental Health Board, Chillicothe, OH ...................................................... 131
Park Hall, Roof Replacement ......................................................................................... 160
Penn-Ohio Electrical Co., Masury, OH ........................................................................... 43
Pennsylvania, University of, Philadelphia, PA ............................................................... 146
Pennsylvania Department of Education, Harrisburg, PA .............................................. 297,298
Pennsylvania State University (The), Hershey, PA ....................................................... 207
Pennsylvania State University (The), University Park, PA ............................................ 32,206
People's Republic of China, Beijing, China ................................................................. 206
Pfizer, Inc., Groton, CT .................................................................................................. 296
Pfizer, Inc., New York, NY ............................................................................................. 205,206
PHC Inc., Holland, OH .................................................................................................. 43
Pharmacy, College of, Report on .................................................................................. 351-360
Phillips, Harold K., Masonry, Columbus, OH ................................................................. 160
Pittsburgh, University of, Pittsburgh, PA ...................................................................... 128,129
Plum, Charles W., Endowment Fund (The) .................................................................. 135
Polymer Technology Corporation, Wilmington, MA ..................................................... 145
Poole Income Trust Funds I, II, III, IV, Appointment of Trustees for ......................... 168
Pressey Hall Remodeling Phase II (University Press) ..................................................... 41
Prior, John A., Health Science Library .......................................................................... 95
Procter and Gamble Company (The), Cincinnati, OH ................................................... 123,295,387
Property, Gift of Real ..................................................................................................... 45
Property, Purchase of ..................................................................................................... 402
Property, Sale of ............................................................................................................. 162,219
Public Employees Retirement System, Early Retirement Incentive Program, Modification of ........................................................... 48
Public Utilities Commission of Ohio, Columbus, OH .................................................... 131
Put-In-Bay Campus Facilities Improvements Phase I - Sewage Treatment Improvements ................................................................. 43

Q

R

Redy Roof, Lorain, OH .................................................................................................... 162
Reed, J. McLean, Student Activities Building ................................................................ 96
Request for Construction Bids ..................................................................................... 157,158,396
Research Park, Report on the ...................................................................................... 344-351
Retirement, Early - Report on ....................................................................................... 663-665
Rezoning of the University, Report on ........................................................................ 342-344,405
<table>
<thead>
<tr>
<th>Name of Donor/Institution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rodale Institute, Emmaus, PA</td>
<td>300</td>
</tr>
<tr>
<td>Romanoff Electric, Columbus, OH</td>
<td>399</td>
</tr>
<tr>
<td>Rose, Ralph and Ruth Haignere, Student Nurse Scholarship Fund (The)</td>
<td>395</td>
</tr>
<tr>
<td>Rose, Ruth Haignere, Student Nurse Scholarship Fund (The)</td>
<td>395</td>
</tr>
<tr>
<td>Ross Laboratories, Columbus, OH</td>
<td>30</td>
</tr>
<tr>
<td>Rules of the University Faculty</td>
<td>8</td>
</tr>
<tr>
<td>Sandoz, Inc., East Hanover, NJ</td>
<td>122</td>
</tr>
<tr>
<td>Schering-Plough Foundation, Kenilworth, NJ</td>
<td>130</td>
</tr>
<tr>
<td>Schultz, Laura (Student)</td>
<td>265</td>
</tr>
<tr>
<td>Scioto Electrical Constructors, Lancaster, OH</td>
<td>216</td>
</tr>
<tr>
<td>Sears Manufacturing Company, Davenport, IA</td>
<td>205</td>
</tr>
<tr>
<td>Senior Medical Student Achievement Award</td>
<td>35</td>
</tr>
<tr>
<td>Septech, Wakefield, RI</td>
<td>205</td>
</tr>
<tr>
<td>Shier-Rings Road, 20.988 Acres, Dublin, OH</td>
<td>162</td>
</tr>
<tr>
<td>Sigma Xi, New Haven, CT</td>
<td>300</td>
</tr>
<tr>
<td>Skou, William J., Scholarship Fund (The)</td>
<td>154</td>
</tr>
<tr>
<td>Sloan, Alfred P., Foundation, New York, NY</td>
<td>207</td>
</tr>
<tr>
<td>Small, Harry E</td>
<td>90</td>
</tr>
<tr>
<td>Smokeless Tobacco Research Council, Inc., New York, NY</td>
<td>124,388</td>
</tr>
<tr>
<td>South Carolina State Department of Education, Columbia, SC</td>
<td>149</td>
</tr>
<tr>
<td>Southern Regional Education Board, Atlanta, GA</td>
<td>298</td>
</tr>
<tr>
<td>Southwest Research Institute, San Antonio, TX</td>
<td>389,392</td>
</tr>
<tr>
<td>Spencer, John D. and Ernestine, Scholarship Fund</td>
<td>210</td>
</tr>
<tr>
<td>Squibb, (E.R.) &amp; Sons, Princeton, NJ</td>
<td>29,123,205,387</td>
</tr>
<tr>
<td>State Teachers Retirement System, Early Retirement Incentive</td>
<td></td>
</tr>
<tr>
<td>Program, Modification of</td>
<td>48</td>
</tr>
<tr>
<td>Strategic Plan for the OSU Medical Center</td>
<td>226-251,363-365</td>
</tr>
<tr>
<td>Stuart Pharmaceuticals, Wilmington, DE</td>
<td>145</td>
</tr>
<tr>
<td>Stuckey, W. E. &quot;Bill&quot;, Memorial Fund (The)</td>
<td>394</td>
</tr>
<tr>
<td>Student Activities Building</td>
<td>96</td>
</tr>
<tr>
<td>Student Affairs Committee Report</td>
<td>372</td>
</tr>
<tr>
<td>Student Trustees, Procedure for Selection of</td>
<td>169</td>
</tr>
<tr>
<td>Sutton, Robert B., Lecture in History of Education (The)</td>
<td>307</td>
</tr>
<tr>
<td>Svehla, Joseph G., Engineering Scholarship Fund (The)</td>
<td>133</td>
</tr>
<tr>
<td>Svehla, Joseph G., Technical Book Fund (The)</td>
<td>393</td>
</tr>
<tr>
<td>Swink, Michael, Memorial Scholarships in Theatre (The)</td>
<td>213</td>
</tr>
<tr>
<td>SYMEDIX, Inc., Wayne, PA</td>
<td>205</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Donor/Institution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>T &amp; D Properties, Inc</td>
<td>219</td>
</tr>
<tr>
<td>Taiwan Government, Washington, DC</td>
<td>299</td>
</tr>
<tr>
<td>Taylor, Jack N., M.D., Urology Lectureship Fund (The)</td>
<td>212</td>
</tr>
<tr>
<td>Teledyne CAE, Toledo, OH</td>
<td>30</td>
</tr>
<tr>
<td>Texas, University of, Dallas, TX</td>
<td>388</td>
</tr>
<tr>
<td>Texas A &amp; M University, College Station, TX</td>
<td>147,299</td>
</tr>
<tr>
<td>Textron Defense Systems, Wilmington, MA</td>
<td>205</td>
</tr>
<tr>
<td>Thornhill, Jeffrey A. (Student)</td>
<td>265</td>
</tr>
<tr>
<td>Trans-Ohio Pipeline Company</td>
<td>220</td>
</tr>
<tr>
<td>Transfer of Jurisdiction - Ohio Department of Transportation</td>
<td>44</td>
</tr>
<tr>
<td>Transportation, Department of, National Highway Traffic Safety Administration, East Liberty, OH</td>
<td>143,202,386</td>
</tr>
<tr>
<td>TRC, Inc., Research Fund (The)</td>
<td>303</td>
</tr>
<tr>
<td>TRW, San Diego, CA</td>
<td>122</td>
</tr>
</tbody>
</table>
1988-1989
THE OHIO STATE UNIVERSITY
Edward H. Jennings, President

BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Term Beginning</th>
<th>Term Expiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leonard J. Immke, Columbus</td>
<td>May 14, 1980</td>
<td>May 13, 1989</td>
</tr>
<tr>
<td>John W. Berry, Dayton</td>
<td>May 14, 1981</td>
<td>May 13, 1990</td>
</tr>
<tr>
<td>Hamilton J. Teaford, Columbus</td>
<td>May 14, 1983</td>
<td>May 13, 1992</td>
</tr>
<tr>
<td>John J. Barone, Toledo</td>
<td>May 14, 1984</td>
<td>May 13, 1993</td>
</tr>
<tr>
<td>Deborah E. Casto, Columbus</td>
<td>May 14, 1985</td>
<td>May 13, 1994</td>
</tr>
<tr>
<td>John W. Kessler, Columbus</td>
<td>May 14, 1986</td>
<td>May 13, 1995</td>
</tr>
<tr>
<td>Milton A. Wolf, Cleveland</td>
<td>May 14, 1987</td>
<td>May 13, 1996</td>
</tr>
<tr>
<td>Leslie H. Wexner, Columbus</td>
<td>May 14, 1988</td>
<td>May 13, 1997</td>
</tr>
<tr>
<td>Laurel A. Davis, * Tipp City</td>
<td>February 6, 1989</td>
<td>May 13, 1990</td>
</tr>
<tr>
<td>Sophia L. Paige, * Columbus</td>
<td>February 6, 1989</td>
<td>May 13, 1989</td>
</tr>
</tbody>
</table>

*Student Trustee -- non voting.

OFFICERS

Leonard J. Immke, Chairman
John W. Berry, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer
The Board of Trustees met at its regular monthly meeting on Friday, February 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

Minutes of the last meeting were approved. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions as follows: faculty/staff appointments and reappointments, resignations and terminations, leaves of absence without salary, professional improvement leaves, emeritus titles, and medical staff appointments/reappointments. Upon motion of Mr. Teaford and seconded by Mr. Berry.

" " " " " " " " 
The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on February 3, 1989, at 1:20 p.m. He requested the Secretary to call the roll.


--0--

REPORT ON THE COLLEGE OF EDUCATION

Mr. Immke:

Dr. Brand, will you please introduce Dean Donald Anderson.

Dr. Brand:

I would like to introduce Donald Anderson. Don is the Dean of our College of Education and received his Master's degree and Ph.D. degree at the University of Minnesota, where he was also a high school teacher and principal for a number of years. He took a post-doctoral degree at Ohio State. He is prominent in a number of national organizations and has been with Ohio State since the late 1960's. Don is going to spend a few minutes in telling us about recent developments in the College of Education. Don --

Dean Donald P. Anderson:

Thank you. I have some material to distribute here. There are a few of my colleagues who think that I also should have an appointment in the College of The Arts because I was Acting Dean of the College four times. Maybe that qualifies me for an appointment in Drama, I'm just not sure. Myles, did say that I taught. I was a mathematics teacher for a number of years in Minnesota. I was a high school principal, first in a very rural school and then one of the suburban schools of Minneapolis before I finished my degree and came down here.

I have a lot of ties to Ohio State, including the fact that three of my four children have graduated from Ohio State. My oldest in engineering, a Bachelors and Masters; he then changed careers and is now finishing his residency in medicine at the University of Cincinnati. My second has his degree in Natural Resources and is part way through an MBA degree program here. My youngest, the third to graduate from here, finished in teacher education last year and is substitute teaching and looking for a job for next year. So, I hope I can help her in that regard. Then I have a very severely retarded daughter who has been living in a private residential school for fifteen years.

Let me, if I may, talk a little bit about the College, following this outline. There are over fifty institutions in Ohio training and preparing teachers -- the thirteen state universities plus a large number of the private liberal arts colleges. That means in effect that Ohio State's College of Education is committed to playing a very unique role. There is no need for us to get into the mass production of teachers. There are shortage areas right now, but we do not see that as our major charge. Being a part of a flagship university, we feel that we have a special capacity and a commitment to research and development kinds of activities to preparing programs to deal with certain at-risk populations, doing some of the kinds of things that I think we are best suited for.

We have been, over the last fifteen years, consistently ranked as one of the best -- in many cases the best -- colleges of education in public universities. There has been no recent ranking. The most recent was in 1980 which was a major reputational study where Stanford University was identified as first and Ohio State as second among all
Dean Anderson: (contd)

colleges of education. We have a number of program areas that are ranked in the top five including: educational administration; foreign language education; industrial technology; our whole School of Health, Physical Education, and Recreation; special education; curriculum; and an area that is coming into great prominence with us, the area of reading and literacy. There is a conference going on downtown right now. It started last night and we had 2,400 people in attendance at a conference on children's literature. It follows on a conference that we had earlier in the week on reading recovery where we had 1,300 people in attendance from twenty states and foreign countries, as well as Ohio.

The College has a long history of leadership development. In fact, that is how we gained our reputation -- I am convinced -- the reputation of fifteen, twenty years ago. A number of our graduates have moved into very prominent spots. I will sometime later talk a little bit about the Holmes Group. The Holmes Group is a group of 97 universities committed to reform in teacher education. They are primarily the major research universities. Eleven of the 97 deans have a connection to Ohio State. Three are on the faculty here and eight of them are our graduates. We have a number of people in major school superintendencies across the country -- interestingly enough, not many in Ohio. Most of them have moved to the east or west because of the salary differentials. The chief state school officer in this state and one other state, Frank Walters and one of his colleagues, is a graduate of our College. We have a number of people on State Department of Education staff's. A number of the people, in fact, on our Board of Regent's staff downtown are graduates of our College. The Chancellor of the Higher Education System in Tennessee, Arliss Roaden, was a member of our faculty, then Dean of our Graduate School here, before going to Tennessee. So I think our reputation has been built more on that kind of prominence than it has on something that is coming up. We want to continue to do that, obviously, but we also want to increase substantially our research productivity, and I will get back to that.

Our faculty is changing. The faculty grew substantially twenty years ago. Those people who joined the faculty then, many of whom were in their 30's, earlier 40's, some of them are at or now past retirement. We have a faculty that is still predominantly male, although that is changing very, very rapidly. We hired twelve new faculty members last year, eleven happened to be female. We were working at that, but that was an extraordinary event. More importantly however, of the thirteen retirees last year, only one was female. That is where we will make the difference. Our male faculty are the senior, older faculty and as they leave and we are replacing them, we are getting a better distribution.

During the last year we graduated 900 students with Baccalaureate degrees, 429 Masters students, and 113 Ph.D. students. Our baccalaureate students, I think, are very typical of the undergraduate population here at Ohio State, in terms of their origin. Most of them come from Ohio, but there are a relatively small number of foreign students in our undergraduate program. Our masters students are mostly local students. Most of our masters students are part-time students -- evenings and summers -- they are teachers and administrators in school systems or working in educational organizations throughout Central Ohio. Our Ph.D. students come from across the country. And again, we have a relatively small number of foreign students. Of the 113 Ph.D. graduates, my guess is that less than 10 of them would have been from outside the United States. We had the highest graduate enrollments in the University. Most of our students are involved in someway or the other in professional education. There was a time fifteen years ago when most of them were preparing for and had experienced working in the K-12 schools. That has changed a good bit. We have a larger number of people now that
are interested in higher education. We are moving very rapidly in working with business and industry, providing people that move into training positions and in many, many spots across the country.

At the undergraduate level we offer a very large program. Thirty percent of our undergraduate student credit hours are offered in Health Education and Physical Education. These are elective courses primarily for the undergraduate student population here at Ohio State. A very attractive program and it would grow much more if we had both the personnel and the physical resources to do it. The ACT scores and the grade point averages of our undergraduates are increasing. And that is in large part a function of the demand to get into the field. We hit our low probably seven or eight years ago when there were very few people electing to come into our undergraduate programs in teacher education. Now we are pressed in the opposite direction. We accept from one-half to two-thirds of the students who are trying to get into our elementary ed program, for example. The GRE scores of our Ph.D. student applicants are among the highest in the University. I was a little surprised about this myself when Roy Koenigsknecht mentioned this the other day. But, that too is changing very rapidly. And that is a function of generating a lot of outside support for students. And, again, I will spend some time on that later.

The faculty is involved -- and I have been very actively involved myself -- in providing some leadership in a national teacher education reform movement. That is the Holmes Group membership. The outside funding for our research and development activity in the College has doubled in the last five years. We are now at the point where our outside funds exceed our general budget, which is very unusual in any education college and may in fact be unusual in any of the colleges of the social sciences. We were able to generate that kind of outside funding. That was true before the National Center for Vocational Education moved into the College and now, of course, they will have about $4 million worth of funded activity next year and so it will clearly exceed the general budget support. Last year we were the fourth highest college in terms of generating money for student support. With the addition of the National Center, we should move into the third slot next year. The National Center has been retitled the Center on Education and Training for Employment. I was a little bit concerned at the time as to why we were changing the name; and now, in fact, I am pleased with the change.

There is a real change in terms of what we are trying to do in employment education today. I think we need to schuck the term "vocational ed" because it has some very negative connotations on the part of a lot of people. Brad Butler, who some of you probably know, the former CEO of Procter and Gamble, is very active in the State and in working with the Governor's Commission recently, has been very critical of the old fashion vocational education. He has indicated so, going back to a committee that he chaired seven or eight years ago that prompted a lot of the change in teacher education. The report was entitled, "Investing In Our Children." It came out of the Committee on Economic Development and was an impetus for drastic changes in the teacher education field. We had 250 staff members in that Center two years ago and we are now down to 59 now. We will probably down size a little more between now and June 30. Although we have been very, very successful in generating support for the people that are there.

About two years ago I set up a Center for Special Needs Population. We have about $3.5 million worth of annual project funds now dealing with the special needs students. The special needs students would be the special education, handicapped students and now to include the students that are at risk, who may or may not be handicapped.
REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

Sometime this spring I intend to establish yet one more center. A way to connect colleagues in the College, and in this case across the University as well, in Teacher Education. The Art Ed, Music Ed, and Home Ec Ed and Ag Ed students' programs are housed near the Colleges, but we work very closely with them and we want to incorporate them in another major research thrust in Teacher Ed.

The American Educational Research Association is the most prestigious organization in our field, and we have moved, as indicated here, from fourteenth to fifth over a period of ten years in terms of the AERA presentations there. It is a tough jury system and we are very pleased with that kind of change.

Three years ago with some new program monies we established a Policy Center on campus in the College. There are ten such centers across the country. The model is the Pace Center at California. The Pace Center at California is supported by Hewlett Packard. The intent of our center and clearly of the Pace Center is to do research, do some synthesis of research, and the results should be something that would be intended to inform policy makers. We have been working with the State Board of Education, with school boards, with the State Department of Education, and have had some conversation with legislators. In fact, Herb Asher and a number of legislators met with the Pace Director when he was here on campus about two months ago and outlined the kinds of things they are doing there. We think there is a lot of promise here.

In terms of service, our faculty hold a lot of prominent positions. We have faculty members in our College who have been presidents of the National Council of Teachers in Mathematics; the International Reading Association; the Association for Supervision and Curriculum Development; the American Alliance of Health, Physical Education, and Recreation and Dance. Many of these, by the way, are organizations that are comprised of both the Higher Ed and K-12 persons. It is unusual in most of those cases for a Higher Ed person to be elected president of those -- something like the National Council of Teachers in Mathematics.

We have mechanisms for providing service to the community. I directed, until two years ago, the School Study Council of Ohio, a consortium of 70 school systems here in Central Ohio. The intent was to provide staff development opportunities for the persons in the school system -- at all levels of the school system. One of my colleagues saw that operation and spun off another similar organization -- our Business/Industry Consortium. We now have about fifty members of a Business/Industry consortium, including The Dispatch, which just joined a couple of days ago; Libert; Huntington; Banc One; Nationwise; Columbus Auto Parts; different kinds of organizations. We started off by working with training directors and have done a lot with them in terms of developing training materials for their employees.

Under the other services category identified here -- in physical education we have a large cardiac rehabilitation program. After my bypass surgery of a year and a half ago, I am a recipient of the service provided by this enterprise in our own College. We started the faculty/staff fitness program at least ten years ago. We are doing fitness assessment. We will be involved with the Health Ssservice in this fitness assessment program for the whole of the University.

We run the Peters-Huelsman Clinic. A clinic on campus that is setup to provide diagnostic services and some kind of treatment services for youngsters with learning problems. We have major funded projects in the area of vocational rehabilitation. We are working with the Columbus Schools on an interesting induction year teacher project.
REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

We had some outside funding at the beginning, we are now working without the funding. The reason we got involved in these kinds of services was to generate some funds, but that is not the major reason. We are providing mechanisms for our grad students to get experiences. That is true with all of our programs over in Physical Education. The Peters-Huelsman Clinic -- all of our school psych students have a lot of opportunity to work in the clinic in an internship kind of role. We do manage for the University, the Essex School and the Governor's Institute for gifted high school students. That is more of a service for us. There is not a lot of involvement of grad students in that kind of activity.

I want to take a couple of minutes to talk about two examples of major activity going on in the College right now. The first is Reading Recovery. I mentioned that Monday night of this week I was downtown, there were 1200 people in attendance. This was the fourth Reading Recovery Conference. This activity began six years ago, here on Campus. It began with an investment by you the Board. We brought to this campus a distinguished visiting professor from New Zealand. A woman, Marie Clay, who had begun over there to test out an idea about saving kids when they were very young, not allowing kids to fall behind. The basic concept of Reading Recovery is that we take the very worst readers, the very poorest readers in first grade and work with them on one on one. It is a very costly project in the front end -- working with them one on one to bring them up to the average first grade level by the end of the year. If we have done that then they are discontinued -- we take them out of the program. Our success rate, over four or five years is very, very high. And the interesting part is that they have a little more experience in New Zealand, so they have longitudinal data there. Once we can bring kids up to that level, they don't slip. Some of them will because obviously you are going to have some very low ability people in that group. But the other programs of remediation in reading haven't worked very well. You keep providing remedial work on top of remedial work every year and they just keep falling farther behind. So the intent here is to take those first graders and work very intensely with them. It has really caught on. We received some funds after Marie Clay left from the Jennings Foundation to support an experimental effort with Columbus Schools. We began by preparing teacher leaders who will go back into their schools and work with teachers. The Legislature provided funding for the first time in '85-'86 and we prepare teacher leaders here at Ohio State who in turn, as I said, go out and work in their own school systems.

So we now have 23 sites across the State. During the last biennium the Legislature allocated $1.5 million to this effort. Most of it going to the schools to release teachers so that they could come in here for study and to release them from some of the responsibilities on the job. We obviously get some support here. The State Board of Education for the next biennium is requesting $7.6 million. The State Superintendent from Illinois has been over here and he thinks that he is going to out Reading Recover Ohio. We have a big jump on him right now, but Illinois is moving in very, very rapidly. We have two faculty members here from the University of Illinois who are going to be here all year. We have four teachers from the Chicago Schools here with us all year and they will begin over there next year. But as I said, we have about a four year lead on them right now.

We prepare about twenty teacher leaders per year. There are over 800 first grade teachers in Ohio who are now prepared to be Reading Recovery teachers. We have had over the last three years faculty members from fifteen universities here. And they come and spend a whole year with us. They are not registered for credit. Most of these people have degrees, but they work here and everybody in training works with a first grader. I was mentioning to my colleague over here, Dick Anderson is the head of a
Dean Anderson: (contd)

very, very large funded project in Illinois -- the Center for Reading Instruction. He is also on the evaluation team for this enterprise. When he came over here three years ago, he made a speech at the very first Reading Recovery Conference. He indicated a lot of skepticism. He is now preparing to be a teacher leader. He is doing it in the Chicago Schools and every day he works with a first grade student. Which is what we expect of everyone preparing to be teacher leaders.

We now have gotten two major grants to supplement -- we have always had some evaluation funds from the State Department of Education, but we got a major grant last year from the MacArthur Foundation. Tom Tobin was here and watched some of this in action and it was a fascinating experience for the person who came down from Chicago. We got a federal project and we got some major MacArthur Funds to do more research associated with this particular activity. Just published is a monograph on Reading Recovery that went to every chief state school officer and probably to most of the superintendents in the country and I expect we will be plagued with calls from here on in. But the enterprise is growing. As I said we have had university people here from outside of the State and from inside Ohio who have spent the year with us. That is increasing because we have a national defusion project that will support some teachers coming in here.

The other activity that I want to spend a few minutes on is the Holmes Group. About five or six years ago, a number of deans from major research universities got together with two goals in mind. One is to be involved in the major reform of teacher education and at the same time to, as best we could, reform the teaching profession. These are major research universities. I was asked to serve on the writing team that prepared the first document and I now serve as the Vice President of the Holmes Group and I coordinate the Midwest Region, the nineteen universities in the ten state midwest area.

There are five goals -- I will only talk to two of them. The first is that of making the preparation of teachers more intellectually sound. It involves extended preparation, it involves building a program for teacher education on top of a liberal arts degree. The activity going on right now within our University is very, very supportive of where we want it to be. This works easily in our traditional secondary academic areas like mathematics and English. It doesn't work quite so well in science or in social science, because teachers out there generally teach a range of subjects, they just don't teach physics. They are very apt to be teaching physics and chemistry, especially in the smaller schools.

There were some real problems. Our faculty in Elementary Ed were very much concerned as to how they would proceed. We now have the third group of thirty students going through -- all of whom had degrees in a variety of areas. The faculty there are believers -- if they could, they would like to stop with undergraduate students right away. This year we -- without any publicity at all, we have not written anything about it to publicize it -- we had 275 applicants for thirty slots. We have an attorney; we have a Ph.D., in that group; most of them are baccalaureate degree holders. They are generally under thirty, most of them are twenty-three, twenty-four years of age. They have gotten a degree, most of them have gone out and worked for a little while. They are not brighter, but they surely are more mature and the faculty love them. And the hiring agencies do too.

So, that is our experience with post-bacs. It is a bit of a problem, because many of them come in without adequate preparation in mathematics or science, so they end up taking a lot of undergraduate course work in addition to their pedagogy courses. We will be
REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

communicating to students the kinds of preparation they should have if they want to come in and move through the program without this remedial kind of activity.

The second of the five goals, and the last one I will talk about, is that of connecting better to the schools. We are working with area schools now and setting up what we are calling professional development schools, built on the model of the teaching hospital. And there will be a lot of contribution by our colleagues in the schools. There are 97 universities in the Holmes Group right now and the organization is in its third year and alive and well.

In the strategic plan for the College that we submitted to the Provost's Office a few weeks ago, we identified six major targets: we want to increase the level of research activity; we want to put our emphasis on the impact of research in educational problems -- we want to take on the tough topics, we want to deal with dropouts and at-risk kids and changing technology. We will continue emphasis on our Ph.D. and M.A. programs. We have an M.Ed. degree on the books, we will use that as a vehicle for our post-baccalaureate Teacher Ed -- our Holmes-type programs. And we will, of course over the years, reduce our undergraduate programs as those graduate programs are growing.

We will continue our international efforts. We want to maximize impact on Ohio State and on humankind around the world. We want to concentrate ourselves. We have had a history over the years of kind of having a shotgun approach. We have little kinds of activities going on in a lot of places. We have had some major, major service projects. I co-directed what, I guess, turned out to be a $10 million Nigerian Ed project, where we had students here for about 6 or 7 years, at least. We don't want to do that again, that was just too much -- it was too much one way -- too much service delivery. We want to get involved in activity where students and faculty are exchanged. Where we learn from the experience, not just delivering services. And we would like to concentrate in a smaller number of places.

We are the College of Education and we are really concerned about high quality instruction, so we want to spend a lot of our attention on that. We have two major funded research projects now from the Apple Corporation, creating the Apple Classroom of the Future. And we have a faculty member in special education doing some very interesting work with robodics and how robodics might be used with multiply handicapped kids.

The last on our list and maybe the most important is our minority recruitment programs. As I expect you know, there are a decreasing number of minority, especially black minorities, in the K-12 classrooms. Currently across the country, and now I am dealing with all minorities, almost 25% of the students in K-12 schools across the country are minority students. The growing population, of course, is the Hispanic population -- not in this area but clearly in the South and the Southwest. Currently, about 12% of the teachers are minority. The projections are that within five years it will be over 30% of the students will be minority and the teaching population might be down to as low as 5%. It is a very, very serious problem so we need to attend to it. We are doing a little bit better in our post-bac programs than in our undergraduate programs. We have a better percentage of black minorities in the post-bac programs than in undergraduate, but it is still far too small.

A number of the leaders in some of the black colleges have, in the recent past, been discouraging students from going into Teacher Ed. The President of Wilberforce was on a talk show here a year and a half ago and she was very clear and she said she would
Dean Anderson: (contd)

not encourage the talented young minority students to go into teaching, because they have many more opportunities available to them. Obviously, in the past teaching has been open to minority students, or at least for a long time here. And we have gotten more than our fair share. Now, we are in very, very tight competition for them and in the long run most of the people, most of the black leaders understand the dilemma about not having some of those people in the classroom, especially in classrooms where kids come from lower social economic levels.

Well, I'm going to stop there -- I have been rambling and I apologize for that. If there are questions, I would try to respond.

President Jennings:

A very thorough report for an exciting College.

Mrs. Bowser:

The Holmes Group. I know, Don, when you started you talked about no longer issuing a baccalaureate degree. I don't know where you are in that progression --

Dean Anderson:

Let me try to do that in a hurry if I can. We have had a real dilemma here with the Regional Campuses, because the Regional Campuses, as you may know, all have four-year teacher education programs right now. They are very dependent on those four year programs for a number of reasons, not the least of which is financial. Also, it is a strong tie into the communities through those programs and they recruit heavily in their community. So they want to maintain good relationships.

So we began exploration and Myles appointed a committee chaired by Joan Leitzel. We began exploring this a year ago of how we could deal with Regional Campuses. And the solution to the Regional Campuses seems to be a reasonable one for the way we will work in many of our programs on campus. We will maintain our baccalaureate degree in education. We will have a bachelor of science -- and let me stay with Elementary Ed for awhile. We will, down the road someplace when we can make this transition, have a Bachelor of Science in Education, but it will be a non-teaching degree. It will not lead to certification. Most of the course work, all but probably 20 or 30 hours will be in the Arts and Sciences. Right now there is a requirement for teacher certification in elementary that students have to have areas of concentration. Well, the major/minor doesn't work very well, because elementary teachers teach in about five or six different areas. So we will have a major concentration in one of those areas, but it will be like kind of a short major and maybe about four minors that these people will take. It will crowd them to do that in four years. A very modest amount of education. We will probably have some field experience and maybe some of the experience in education will be foundational, like take a course in sociology of the family. Some in the College; most of it outside.

Most of my faculty colleagues -- in probably all except English and mathematics where we just want to get rid of the undergraduate degree entirely. We know there are plenty of people to draw from out there and maybe in foreign languages as well. But in the social studies, as I said, we have the same kinds of problems. The teachers go out and they teach political science, economics, history, anthropology, and psychology. And maybe, if we can, it would be my preference to get out of the business, but we will not do
February 3, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

away with those degrees right now. We will have something like a pre-education baccalaureate.

Mrs. Bowser:

So you do both?

Dean Anderson:

We will do both.

Mrs. Bowser:

All right. Now my other comment was about Reading Recovery, which I am familiar with and I think it is a phenomenal program. What about, in addition to reading, doing a similar kind of program in math or science?

Dean Anderson:

It is a different kind of problem, I think, Mrs. Bowser. The study that was sited a couple of days ago -- the very poor showing that our students made is in part a reflection of the kind of people that we attract into Elementary Ed. We are attracting people who have great interest in reading. It is easy to talk, I mean -- there are 2,200 people downtown right now and they are excited about what they are doing because they are dealing with children's books and reading. These kinds of people are also strong in the social sciences, but they are not strong in math and science. And I am really concerned about that. Now, I am speaking of the general population. I think we attract more able students here, but if you take a look at all of the institutions that prepare elementary teachers -- when I said over fifty in Ohio prepare teachers, they all prepare elementary teachers. And some of them are very weak. They come in with very, very poor backgrounds. They know enough mathematics to teach mathematics, but it is the affect. I think they don't care about it, they are a little bit frightened by it, and it is very easy for that to be transmitted to kids. I am convinced that is a major problem.

Mrs. Bowser:

You don't think that children could be served by having a special program in math?

Dean Anderson:

I'm afraid not. I think that we are going to have to deal with it differently. We are going to have to deal with special instruction, I think. We are going to have to break up a little bit, I don't want to do away with it entirely. The single classroom teacher who has control of all of a kid's experiences from grades 1-4. We are going to have to have a little bit of specialization there. I am not optimistic that we are going to be able to attract a lot of people with strong science and math backgrounds into education because of the great salary differentials. These people can go into other areas and make considerably more money.

Mrs. Bowser:

That is an interesting perspective --
February 3, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson:

It is a staffing problem, I am convinced.

Mrs. Bowser:

When you sited all of the honored persons that have graduated from the College of Education, you didn't mention my name.

Dean Anderson:

Or your daughter!

Mrs. Bowser:

My daughter, that's right!

Mr. Kessler:

Shirley, I thought that there was some question whether you graduated!

Mrs. Bowser:

I told you I wasn't an honor student, I didn't say I didn't graduate.

Dean Anderson:

Let me make it up by giving you a copy of a $19.00 monograph -- how's that?

Mr. Teaford:

Again, with the Holmes Group -- in five years what do you anticipate is likely to be your M.A./B.S. mix? Is it going to be --

Dean Anderson:

I would say, I don't know what the numbers will look like, because we are really trying to work that out. We are fully committed to generate as much funds for this University as we are generating right now. We are not going to do anything crazy that is going to decrease tuition or subsidies coming into the University. We have an extended meeting coming up Tuesday of this week with a representative of the Provost's Office regarding that. The baccalaureates that we will provide -- we have two programs in physical education that are non-Teacher Ed. We have a very small recreational program that I think we are going to do away with. It is a very weak program right now. We also have a program in exercise science. A baccalaureate program which we will maintain. Now, that is not Teacher Ed. The rest of our programs, except for this large service compliment over there, are education related.

So, I really can't answer the question, Joel. Our bread and butter will be, of course, the post-baccalaureate, Holmes-type, masters degree program in Teacher Ed.

Mr. Teaford:

Do you expect that to be the majority?
February 3, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson:

That will be the majority, yes. We will keep the Ph.D. enrollments not any higher than they are right now. One of the concerns we had, of course, is how we are going to support all of those graduate students who now hold GTA positions. They will not be able to play the same kinds of roles and that is one of the reasons, again, why we're seeking outside fundings so we can attract the very best in here.

Mrs. Bowser:

Thank you.

Mr. Immke:

Any further questions? Thank you, Dean Anderson.

Dean Anderson:

Thank you, for the opportunity.

---0---

RESEARCH FOUNDATION REPORT

Mr. Barone:

Mr. Chairman, I would like to report on the Research Foundation grants and contracts for the months of November 1988 and December 1988 that are shown in the Board Agenda book. There are 177 awards listed for the two months which provide a gross income of $18 million.

Funding for the first half of this fiscal year is 22% ahead of the same period last year. Federal funding is up 26% with increases from most agencies. Funding from Industry is also up significantly with a $2.2 million grant from Cray Research, Inc., to the Ohio Supercomputer Center accounting for much of this. Department of Defense awards are up largely due to a fear that there will be another DOD freeze. Program managers are trying to commit the money before this happens. Department of Education funding is down and here we see more clearly the effects of our loss of the National Vocational Center. National Science Foundation funding is down but only because of timing in awards. There is some speculation, though, that the big NSF Science and Technology Centers might reduce the money available for smaller projects. A number of big NIH awards has resulted in a substantial increase in Health and Human services funding.

Some highlights of awards are:

$200,000 from Health and Human Services to Professors Chen, Guthrie, and Li to train Southeast Asian immigrants in the Franklin County area. This is for the purpose of exposing them to wellness techniques or health techniques.

$134,000 from the Department of the Interior to Professor Bossler of the Center of Mapping for Digital Graph Enhancement.

$85,000 from the NIH to Professor Litsky of the Department of Surgery to investigate Bone-Cement Biomechanics.
February 3, 1989 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

A few highlights of these research projects. I thought the most important one was the Southeast Asian population. It is the fastest growing culture in this country. They are also at an unusual higher risk for high blood pressure and heart disease. However, they have little awareness of prevention or treatment measures. This project brings together faculty in medicine, sociology, anthropology, and health education to train Southeast Asians in health techniques. It is unique in its cultural sensitivity. The researchers on this project are becoming internationally known for their expert knowledge in this field. The award they received is one of the largest granted by this agency.

Another one for the $85,000 is the Bone-Cement Interface Biomechanics in the Department of Surgery given to Alan S. Litsky. The most frequent postoperative complication of cemented total joint replacement procedures is loosening of one or both components. The loosening process initiates by resorption of bones at the bone-cement interface. The hypothesis for this investigation is that the resorption is due to excessive local contact stresses which occur due to the geometry of the interface. This research will establish a firm experimental foundation for the contact stress hypothesis of loosening.

Dr. Tzagournis, would you like to highlight on the medical event?

Dr. Tzagournis:

I think you have done that very well.

--0--

HOSPITALS BOARD REPORT

Mr. Teaford:

Mrs. Bowser is going to let me do the talking today. There has been a Board meeting and an Executive Committee meeting of the Hospitals Board since we last met. At the December Board meeting, Dr. Clausen announced the new Medical Staff Officers: Dr. Bill Smead is the new Chief of Staff, and Dr. Bill Bay the Chief of Staff-Elect.

We heard a number of reports as we always do and did approve advertising for bids on the Dodd-Davis Interface Project and some patient unit upgrades and remodeling.

At the January Executive Committee Meeting, we heard a significant report from the Clinic Task Force on ways in which we can improve the delivery of services in the Clinic area. Everything always seems easy until you hear a report like that of the incredible components that go to make up the way our Clinics operate. So, it is not going to be something that we are going to be able to do overnight, but I think it is something that the Hospitals is clearly committed to advancing.

We did approve a revised budget. The principle reason the budget was revised was because, of course, we do not have a cancer hospital open and as a consequence we have a far better economic picture because it is not open.

We also approved, as subject, obviously, to the approval of this Board, the purchasing of a lease hold interest in the Beechwold Medical Center. And Dr. Kramer announced the formation of a Task Force on Nursing. Again, one of our very significant problems is the Hospitals. The problem is that we do not have enough nurses and indeed we have
February 3, 1989 meeting, Board of Trustees

HOSPITALS BOARD REPORT (contd)

Mr. Teaford: (contd)

closed a few beds because we do not have enough nurses. So as we all know, this is a problem that is not peculiar to Ohio State's Hospitals. In fact, we are probably better off than most hospitals, because for one thing we pay more. But nevertheless it is a crucial problem which this Task Force will address.

One other thing that Mr. Nichols did not add to my notes. As you know from the agenda, we will be appointing a new Director of the Hospitals. But I want to say that that Director will find it a far easier task because of the absolutely superb job that Jim Nichols has done in operating the Hospitals in the interim. It just cannot be over emphasized how well he has done and I think we owe him a great debt for that service.

Mrs. Bowser:

I certainly concur on that.

Mr. Teaford:

One other little thing that is my debt to our immediate past Chairman, Mr. Redman, I have, as I promised him I would, set with the Billing Committee. The one that is going to get us a unified bill in the year 10,000. It is indeed making progress. And I think that the difficulty now is how all of the medical groups will govern such a program. They have indeed been directed to come up with a method of governing that and there were certainly suggestions that they had better. I think that once the governance is in place that will be an easy task to complete.

Mr. Immke:

I'm sure that Mr. Redman will be encouraged by that.

Mr. Berry:

Why don't you tell them if they don't you are going to bring Mr. Redman back as a special advisor to see that they do.

Mr. Teaford:

Actually, I instilled enough fear just by myself, without even having to do that.

President Jennings:

On the nursing shortage, we have now had four straight months where the net change in nurses is positive. Not positive by a lot, but we are making some considerable progress on that issue. We do have to keep moving forward. We are gaining more than we are losing. So there is progress being made, but it is a national problem and our salary and benefits is helping considerably on that. But it is a tough one to get going.

Mr. Immke:

Any questions? Thank you, Joel.

--0--
February 3, 1989 meeting, Board of Trustees

STUDENT TRUSTEES

President Jennings:

Thank you, Mr. Chairman. Let me deviate one item from the agenda. Very late this morning Governor Celeste informed the University that he has named two students to serve on the Board of Trustees of The Ohio State University.

Sophia Lorraine Paige, a second-year student in the College of Medicine, from Columbus, Ohio, will serve a term expiring May 13 of this year. And I might add what we have asked the Governor to do is then to reappoint that person for a full term. The Governor is not under any obligation, of course, to do that, but that it is a phase in. The second person is Laurel Ann Davis, an honors student pursuing a Bachelor of Science degree in psychology, will serve a term ending May 13, 1990. She is from Tipp City, Ohio.

As you may remember, legislation calling for student membership on the Board of Trustees was signed by Governor Celeste April 26, 1988. I might add, a rigorous application and selection process was developed by the leadership of the three student government organizations at Ohio State, and five candidates were recommended to the Governor in mid-December for his consideration. I want to thank and commend the leadership of those organizations -- Steve Dibert, President of the Inter-Professional Council; Roger Musgrave, President of the Council of Graduate Students; and Athena Yiamouyiannis, President of the Undergraduate Student Government. I want to thank them for all of the work they have done in bringing together a list of five outstanding people and I am absolutely certain these two will serve this Board well.

As an antidote, one of the members of the Board of Regents was present in the interviewing process for all the student candidates and the Governor's Office throughout the State and that individual was extraordinarily complimentary about Ohio State's candidates. We expect them to be the best, but it is nice to hear that confirmation that they are the best.

Unfortunately, this announcement came this morning so we couldn't have them here. We will have them here at our next meeting. And hope that that goes well, I am sure it will.

--0--

REPORT ON EARLY RETIREMENT

President Jennings:

Three years ago the State developed a process in the retirement system where institutions could buy up to five years of retirement credit for employees of the University. There are a variety of rules associated with that buying depending on age, length of stay, and the number of years one has been in the system, and that was in enabling legislation.

We instituted this, I think, three years ago for the faculty and two years ago for the staff. That program that we instituted three years ago for the faculty and staff has now expired and this year we will want to consider whether or not to renew that program either as it is or with any modifications. I want to bring that to you so that you can be thinking about the activities there. As you heard this morning in the Financial Report, the program on an economic basis is clearly to this point a success. Roughly, 1,400 people are taking
February 3, 1989 meeting, Board of Trustees

REPORT ON EARLY RETIREMENT (contd)

President Jennings: (contd)

advantage of this, a very large cost associated with it, but also a very large return. We expect eventually, as this has gone through, that the average pay back to the institution will be about 2 1/2 to 3 years. Obviously, we can't absolutely tell that right now depending on who gets replaced and as to what salaries, but clearly there is enough leeway where it looks like it is an appropriate economical thing to do.

Now, when we talk about renewing it we've got to talk about, I think, several aspects and we will look into detail on it. I would like your advice if there is anything else that we ought to look at. Obviously, economics -- as I say, they look good right now, although, as you also noted you have heard some cash flow problems and we have to deal with those. But economics becomes a part of it. In fact, the quality of the institution also becomes a major portion. Losing 1,400 of our long-time, fine people is a difficult thing for the institution to swallow. We have to evaluate those loses in the context of the institution as to whether that was appropriate. In the same context, it is a marvelous benefit and for the people still here it is a marvelous thing to be able to look forward to, to have that benefit available. Hopefully that will keep a lot of young people here at Ohio State for a lot of years even though they may have other opportunities elsewhere.

We have to look at how we might handle individual departments that have particular problems. For example, I think, in Veterinary Anatomy we had eight out of ten of our permanent faculty retire this year. Institution-wide that is not a major affect, but in a particular area like that it is especially hard. We also have to look at this in the context of the fact that with staff, now, mandatory retirement is gone and with faculty it will be gone by 1992. We have to deal with what the projections and and what we think right now is that the we have gone through the bulk of the retirements and we would not have the massive numbers of retirements in the future that we had this time. You will notice on the Personnel list, for example, there are some 98 - 100 Emeritus Titles. That is all a result of the retirements that took place in December.

We will be coming to you with this as we go, but if there are any comments that you have now or in the future, please let us know.

Mr. Teaford:

How many of the 1,400 were faculty?

Mr. Ihrig:

Four hundred and forty-six.

Mr. Teaford:

One of the senses that I had with the way it was done, this system of having it expire every so often, is that there is the psychology that it will never happen again and I better retire now. I almost wonder if we would be in better shape with that being a permanent benefit of the University and then we sort of have an even impact in terms of this. A number of persons asked me directly did I think this was ever going to happen again, because if I had said I didn't think it was going to ever happen again, they would have quit on the spot. So, I think, that is one of the reasons we had such a high number. There was a certain feeling that maybe that opportunity wouldn't pass again.
February 3, 1989 meeting, Board of Trustees

REPORT ON EARLY RETIREMENT (contd)

President Jennings:

I don't think there is any question. As you recall the key thing for making it temporary of course is not the long-term economics, those look good. It is the short-term cash flow. When we asked Weldon to come up with $54 million, that is the one-time buy out. If that gets excessive, then we need an ability to shut it down, but not necessarily permanently. That is obviously something that we have to --

Mrs. Bowser:

It impacted the Hospitals' budget, too, if you remember.

Mr. Teaford:

It impacted everything.

President Jennings:

At the Hospitals the accountants are requiring us to charge this off all in one year, even though STRS and PERS allow the payment to be made over a five-year period. But the interesting thing and the evidence on this is it is worthwhile. Every time I offer to have the institution pay the cost of the early retirement, I get a very quick reject on that. Because the deans and the department heads know that they are going to be able to get the savings and keep that savings associated with it. But, it is a marvelous benefit and the economics are there, but the quality of funding --

Mrs. Bowser:

What is the time frame for decision on this?

President Jennings:

This summer.

Mr. Scott:

Mr. President, just one reaction to Mr. Teaford's comment that has to do with whether you make it permanent or not. As indicated, one of the things that you wanted was the flexibility. As you know, anytime you implement a program that people think is with perpetuity and you try to change it or to get rid of it, they perceive as a take back. So having it over a period gives you flexibility. And more importantly, looking at the demographics the University's faculty and staff now, the average age is probably under fifty. So, the bulk that the President is talking about went out last year and I would suspect a great many of them would have gone in any event, because they have the large number of years accumulated in the system.

President Jennings:

We also have, Scottie, a large number of people who went into this retirement system when they were students. That doesn't happen any more. This happened way back in the early '60's. So you have some people that are 60 years old with 40 years time in the retirement system. And that is at 80% of their final years pay.

--0--
February 3, 1989 meeting, Board of Trustees

DEMographics

President Jennings:

If we could then for a moment put on our long-term hat and talk about the demographics that we are facing as an institution over the next, roughly, fifteen years. As we begin getting into discussions about the long-term mission and activities of this institution, I would like to start today with a discussion about what our market looks like for the next several years.

I will start that discussion by noting first of all that enrollment predictions for higher education historically have been notably bad. In the Student Affairs Committee this morning we were talking about the reputation of a Morrill and Lincoln Tower. We were talking about how that is improving and so forth. If you were to look at the plans of the University that are sitting around from the early 1960's, you would find that all along Stadium Drive were a series of towers, like Morrill and Lincoln Towers. There are West Campus plans with thirteen additional buildings out there, all to house this huge surge that was being projected for Ohio State in the early '60's, to an institution of 100,000 based on a whole lot of things, and of course never happened. I think there would have been seven of those towers.

Probably the only characteristic that can be described about enrollments is that they are counter cyclical. Nationwide and generally locally, they go up during recession times and tend to decline during boom times. That is very, very important for us to note that for the State of Ohio. The best explanation of the reason they go up generally in recession times is that the opportunity cost of going to college, namely the other job, the job one would have had had they not been in college, that opportunity's costs goes down and makes college more expensive when there is unemployment and it goes up in times of recession. That is important for Ohio because Ohio's economy is changing radically right now and the value of education is becoming very different.

The second thing is that Ohio State is in an unusual situation where we have an enrollment cap placed on us by the General Assembly and we are at that cap today. The enrollment cap is 40,000. They ask, "Well, how do you get the 58,000?" That is because there are several exceptions, health sciences, agriculture, the regional campuses and so forth. But we are essentially at that cap today. That is important in the context that last year, for example, we got roughly 19,000 applications to Ohio State, with a class size projected at 6,500. So, we are way over the amount of students that we can handle. The reality probably is that there is zero risk that enrollment will decline over the next fifteen to twenty years, because we are so far above demand right now. Nevertheless, the characteristic of that student body is going to be affected very much by the demographics.

The key variable, of course, is the number of high school graduates, and that is pretty easy to project right now. The U.S. experienced, as you all know, a baby boom after the War. That baby boom officially ended, from a college point of view, in 1979. When I say officially ended, that is when the number of high school graduates began to decline. And nationally the number of high school graduates will continue to decline until 1994. When 1994 arrives, the children of the baby boomers will begin to arrive on campus. And as you see from that chart, there is a steady progression upwards in the number of high school graduates through the year 2000 into the 21st Century. Nationally, that characteristic is there -- a continuing decline and then a huge increase again after 1994.

In Ohio on the other hand, the pattern is roughly the same, but the increase after 1994 does not go nearly as high as in the United States. In fact, we will be down 14% in the number of high school graduates by the year 2004. So that Ohio's effect from the demographic echo is not going to be there.
February 3, 1989 meeting, Board of Trustees

DEMOGRAPHICS (contd)

Mrs. Bowser:

And that is because people are leaving the State or --

President Jennings:

People leaving the State because of the State's economy, the declining and the aging of the State's population. The only thing that could begin to change this would be some big population growth that would bring on a great deal of young people. These projections on high school graduates are relatively accurate, because these people have already been born by and large.

What effects that? Probably the biggest effect in Ohio is the initiatives that are being taken now in the economic situation where the percentage of youngsters going on to college is increasing rapidly. Historically, this State has been among the lowest in terms of students graduating from high school and going on to college. Historically we have sent about 43% of our high school graduates on to post-baccalaureate education. The national average historically has been 53%. We are about 37th in the nation, this is depending on how you count, in terms of our percentage of the applicants that go on to college. The best explanation that people can come up with is the fact that this State has been characterized as a heavy industry state. For the jobs available and the income available from those heavy industries, whether it is steel, auto, rubber, or whatever, those income opportunities are so much better in this State than they have been elsewhere. There again, the counter cyclical nature of enrollment. Remember when we were talking about a decline in a number of high school graduates from 1979-94, enrollment not only at Ohio State hasn't declined, but across the State enrollment in college has not only not declined, it has increased about 1% a year since that beginning decline took place. The other thing that is happening is that a much higher percentage of students are going on to college than has been the case in the past. So, I would expect Ohio to see a continued increase in the number of students going on to college. So, while the demographics are not favorable to us, the number of customers, if you will, will continue to rise over a long period of time.

In addition, State policy to improve -- when we talk about the overall variety of programs that we have, whether it is a reading assessment program being funded by the State that we were talking about this morning, or math placement where we are in virtually every high school in the State, or Ohio State out there, or Bowling Green out there recruiting students and giving them the information about the college -- the Governor and the General Assembly people mean it about getting the cost down in terms of going on to college, that all should all begin to force it on up.

Some other things that we need to be thinking about is continuing education activity. There is no question that the twenty-five to thirty-four year old category of population is increasing and is going to increase for several years to come. That is a large bulk for not only graduate education, but continuing education. As an institution, Ohio State is not a big continuing education institution. We have 7,000 continuing education students, but the Board of Regents' regulations close us out of a lot of continuing education that is done by Ohio University, by Miami, by Bowling Green.

Mrs. Bowser:

How do they close us out of it?
DEMOGRAPHICS (contd)

President Jennings:

They simply prohibit us from offering those courses in Franklin County.

Mrs. Bowser:

I see. It says 7,000 students that we have in Continuing Ed, does that go against our quota?

President Jennings:

If it is after 5:00 p.m., it does not. The other thing that it is pretty clear is that in Washington national service is beginning to be an attractive policy. There is an awful lot of discussion on both sides of the aisle in Washington about some sort of mandatory national service bill for young people. Not military -- military could satisfy it, but a peace corp type of thing, or a whole variety of things. That discussion seems to be gaining ground. That of course would probably effect us in terms of enrollment in a negative way. One of the interesting phenomena right now is the average undergraduate student at Ohio State takes 5 1/2 years to graduate. Probably if you had a national service, that number would go down very substantially, because they are staying in longer. I don't think there is anything wrong with that because the education is broadening.

Graduate enrollment -- we expect to remain the same, although there will be a lot of shifts there and we are going to have to stay flexible. We talked about one this morning, in terms of our new programs in foreign languages and a major shortage in foreign language instructors. We will be changing our undergraduate curriculum towards science. That may have an impact on what Don was talking about this morning, of more interest in science and mathematics at the lower levels, and better training for science and mathematics on the part of our elementary educational teachers in that context. That is a longer term activity.

The other thing we should recognize is that in 1970 the typical college student was a male undergraduate between the ages of 18 and 24, attending full-time. In 1987, the typical college student was a female undergraduate with an increasing likelihood that she was over 25 and attending part-time. That is not Ohio State, but that is national and that shift is taking place in a very major way. Discussion?

Mr. Teaford:

Mr. President, in the one area that seems to defy the sort of recession driven model of why people come to college, is in terms of minorities it seems to me. Because, as I understand it, while Ohio has significantly greater number of minorities graduating from high school, except for last year, it is the opposite in terms of going to college. Do we have any sense of what makes that population deal with it differently?

President Jennings:

We think that our young scholars program is directly related to that. It is a whole combination, but summed up in a social attitude that a college education is either of no value or beyond the means of the community. And what we need to be doing is to be whether it is in the Mt. Vernon area of Columbus, or the black neighborhoods it is not just the Young Scholars Program, but getting an educational process of the value of a higher education and the fact that it is available, independent of financial means. But that is a problem that so far has not been solved. We are attacking it in that direction, but those are hypotheses.
Mr. Teaford:

As you know, in Columbus it is now the case that any graduate of the Columbus Public Schools can attend one of the institutions of higher learning in this County. Hopefully, those kinds of programs will do something to --

President Jennings:

That is right. Remember that when Don says 25% of the primary and secondary school population are minority what that means is 75% of our market is either female or minority. And that is a market that we are not 75% enrolled in right now.

Mrs. Bowser:

How do you think the demographics that you have presented will change the relationship between the number of undergraduate students we have and the graduate students we have? What do you see there?

President Jennings:

Well, as we reach that bottom in 1994 and we begin to bottom out -- not as much in Ohio, but I think it will parallel -- what that is going to start doing is pressing the capacity of our educational system in Ohio. We've got excess capacity in our educational system right now, but not a lot. Shawnee State is there and it's got some expansion; Ohio University, I think, is 5,000 below its enrollment ceilings, and so forth. As that takes place, this State is going to have to be thinking about how they add capacity to the undergraduate program. I think that Ohio State is at its limits in terms of ability to deal with more students. That is why I think the enrollment ceiling is a good thing. But, I would be very reluctant myself to see us moving away from an institution that is roughly two-thirds undergraduate.

Mrs. Bowser:

So would I.

President Jennings:

I think that all the higher education administration literature would say that if you want to be a great university, you've got to be two-thirds graduate and one-third undergraduate. I think historically that was probably correct. But I think we are going to recognize that a large undergraduate population today is essential to accomplish all three of the teaching, research and service missions, because of comprehensiveness, because of scale economies, and because of the diversity needs of not only an undergraduate education, but graduate education as well.

Mrs. Bowser:

So you don't see a necessary fluctuation in the relationship between undergraduates and graduates?

President Jennings:

Right now, I think, we are 43,000 plus or minus undergraduates, and 12,000 plus or minus graduate professionals.
February 3, 1989 meeting, Board of Trustees

DEMOGRAPHICS (contd)

Mrs. Bowser:

And you are looking for the same ratios?

President Jennings:

I think we will be 43,000 undergraduates for the foreseeable future. I think that probably the time that we will test that is when our dropout rate stabilizes. That is going down right now. When that stabilizes and we find out what our future dropout rate -- and that is going to be several years before that stabilizes -- then we will be formally addressing that. But I think at this stage it is not there.

The other thing is to keep in mind -- the expansion of a graduate program is just not expensive, but it is a very, very long-term type of activity. But, there again it is one of our advantages over everybody else of being a comprehensive institution. We can shift within even though the totality doesn’t change.

We were talking this morning, who would have thought ten years ago that I would be talking about shortages of language teachers. Who would have thought that one of the Provost’s toughest issues is to accommodate the students demands for Spanish. Ten years ago, we were barely putting enough people into languages to justify having a Spanish department. But today it is just “boom.” That’s again our advantage, because those shifts come from within in a comprehensive institution. But if you are comprehensive, you can deal with that. But, if you are Johns Hopkins for example, you can’t.

Mrs. Bowser:

They are dealing with it.

President Jennings:

Well, they are dealing with it in the sense of getting rid of 10% of their faculty. They’re not going to fire them or anything like that. But, always note that in a University, one of the management principles that is fundamental is that you can tear down a department in no time, but it takes a generation to build it back up again. Ten years ago if we said, “we ought to wipe out Spanish because we don’t have any demand for it,” it would take a generation to build it back up again. That is one of the reasons that we are conservative about eliminating programs, because when Johns Hopkins cuts out 10% of their faculty in the liberal arts they are doing great, great damage to that program. They have a marvelous reputation.

Mrs. Bowser:

But they are also taking money from their medical field which is what they are noted for. Those persons are very unhappy because that is the amount of money they spend on research. So they are going to have to cut back their research.

President Jennings:

Johns Hopkins is a marvelous place, but it is small, not comprehensive, mostly graduate. But we don’t have those overall enrollment risks, but we have internal enrollment risks. For example, in Dentistry today we are half of what we were five years ago.
DEMOGRAPHICS (contd)

Mrs. Bowser:

Half? Why is that?

President Jennings:

We were at 220 in a class, we are at 108 or 107 right now. First of all it is an economic situation. One cannot make a substantial living in dentistry now if you're a young dentist. We have been cutting it back in terms of qualified applicants. We knew we were going to come down, it is all over the country, but we've cut it back in terms of qualified applicants. That let mixes change. And Dentistry is one of the major improvements in quality throughout the institution.

I think the key though is we don't have that enrollment risk that a Hopkins would have or that many of these other have. Ours is mixed --

Mrs. Bowser:

Well, it is manageable because of the mix.

President Jennings:

That is right. I am probably the only University President and Myles the only Provost in the country that really don't have to worry about enrollment in terms of quantity. Because with these declines an awful lot of folks are scrambling. Ask any youngster who is reasonably bright and who has gotten reasonably good test scores, ask them how they are inundated by schools saying we want you in.

Mr. Kessler:

My daughter has missed it by graduating too early.

President Jennings:

An honor student might be visited by a hundred different universities -- they are scrambling for that activity. It is also why keeping costs down is so important, too.

Mrs. Bowser:

Thank you, good report.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee with all in attendance met this morning. Mr. Al Rodack gave a report on the Endowment Investment performance through January 20 which shows a total value of $259.7 million. The Investment Portfolio is current at 41% equities; 25% fixed income; 14% real estate; and 20% cash. Mr. Rodack also reported on the performance of the University cash investments which has been invested at a yield to maturity rate of 7.5% over the past 12 months ending December 31, with an average maturity of 2.8 years. This exceeds the Donoghue money market index yield of 6.37% over the same period.
February 3, 1989 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

Mr. Kessler: (contd)

The Committee also reviewed the performance of the Endowment investment advisors through June 30, 1988.

The report of Ennis, Knupp & Associates along with comments by the Treasurer's staff were reviewed by members of the Committee. The principals of the Knupp firm will be on campus to meet with the Treasurer and his staff and the Investment Committee on February 20, at 1:30 p.m. Any interested members of this Board are also invited to attend.

The 2nd quarter preliminary report on the University's Capital Campaign shows total receipts and pledges of $329.3 million through December 31. This December was the second largest December in the University's history, following the performance two years ago just prior to the implementation of the tax reform act.

That ends my report, Mr. Chairman.

Mr. Teaford:

That meeting would be here?

Mr. Kessler:

Yes.

(See Appendix XV for complete text of The Ohio State University Endowment Summary, January 20, 1989, page 727.)
(See Appendix XVI for complete text of the Recommendations from the Office of the Treasurer regarding the Ennis Knupp Report and the Investment Policy for The Ohio State University Endowment Fund, page 739.)
(See Appendix XVII for complete text of The Ohio State University Campaign, page 746.)

ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning the Committee received a report from Provost Myles Brand regarding the work of the Special Committee on Undergraduate Curriculum Review and a model from a sub-committee in the Colleges of the Arts and Sciences dealing with proposals for the University's general educational requirements. The emphasis of these groups is on the development of basic skills in writing, data analysis and speech communication -- and simply put, speaks to curriculum changes effecting a liberal arts orientation. The current focus on campus is in the coordination of these goals with specific requirements for each major, a process which is expected to be completed in June with full campus implementation in 1990-91 academic year.

The Committee is excited about this activity and looks forward to the possibility of a more detailed report to the full Board from the Provost late this year. Are there any questions about it?
February 3, 1989 meeting, Board of Trustees

ACADEMIC AFFAIRS COMMITTEE REPORT (contd)

Mrs. Bowser:

Part of the problem with our new format is that you can't hear everything.

Ms. Casto:

That is true. But what is going on is really exciting. Of course, one of our biggest concerns is the expense of it, and our staff, and how it is all going to be implemented. But I'll tell you it could be one of the best things for this University and a model to follow for other universities. And I know it is really something that we all look forward to.

(See Appendix XVIII for complete text of Report to the Board of Trustees from the Subcommittee on Academic Affairs -- Undergraduate Curriculum Review, page 749.)

--0--

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 89-71

Synopsis: The Academic Affairs Committee recommended the approval of the following amendments to the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on December 3, 1988, as follows:

AMENDED RULES

3335-5-4810 Faculty hearing committee.

(A) Membership.

The faculty hearing committee shall consist of twelve tenured members of the regular faculty elected by the faculty council. Each elected person shall serve a four-year term as a regular member followed by a one-year term as an alternate member.

Balance unchanged.

3335-5-4816 Committee on women and minorities.

(A) Membership.

The committee on women and minorities shall consist of thirteen members.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(1) unchanged.

(2) Two staff members.
   (a) One classified civil service staff member appointed by the steering
       committee from a slate of two nominees provided by the staff advisory
       committee. The term of service is three years.
   (b) One administrative and professional staff member appointed by the
       steering committee from a slate of two nominees provided by the staff
       advisory committee. The term of service is three years.

(3) Three students.
   (a) One graduate student selected by the council of graduate students. The
       term of service is one year.
   (b) One professional student selected by the inter-professional council. The
       term of service is one year.
   (c) One undergraduate student selected by the undergraduate student
       government. The term of service is one year.

(4) Two administration members, non-voting.
   (a) The vice provost for minority affairs or designee.
   (b) The executive officer for human relations, or designee.

Balance unchanged.

3335-9-10 Removal of entrance conditions.

Entrance conditions assessed against students at the time of admission or transfer to a college may
be removed by the vice provost for student affairs, when the dean of a college in which the
conditioned student is registered has certified to the director of admissions that the deficiencies have
been made up. The methods to be followed in making up entrance conditions shall have the joint
approval of the director of admissions and the dean of the college concerned and, for undergraduate
students, shall be in accordance with policies established by the council on academic affairs in
consultation with the council on admission and registration. Removal of entrance conditions shall
take precedence over the student's regular college schedule. If credits earned in the university are to
be substituted for such deficiencies, the student must earn a grade of A, A-, B+, B, B-, C+, C, C-, D+,
D or D in courses approved to remove admission conditions. Five quarter credit hours and ten credit
points shall be added to the graduation requirements of the conditioned student for each unit of
entrance condition to be removed by this method.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted
as recommended by the University Senate.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing
resolution by unanimous voice vote.
February 3, 1989 meeting, Board of Trustees

WAIVER OF PARAGRAPH (G) OF BYLAW 3335-1-08
OF THE ADMINISTRATIVE CODE

Resolution No. 89-72

Synopsis: The Academic Affairs Committee recommended the following Waiver of Paragraph (G) of Bylaw 3335-1-08 of the Administrative Code.

WHEREAS the Board of Trustees of The Ohio State University did, on January 9, 1976, amend paragraph (G) of bylaw 3335-1-08 of the Administrative Code to state that "buildings and structures shall not be named for any person who is an officer or employee of the University or the State of Ohio, but may be named for a person who has been retired or has otherwise left such a position for a minimum of three years"; and

WHEREAS the President wishes to recommend that Honors House, be named to honor Albert J. Kuhn, who retired December 31, 1988, as Director of the University Honors Program:

NOW THEREFORE

BE IT RESOLVED, That the applicable requirements of paragraph (G) of bylaw 3335-1-08 of the Administrative Code be waived so that Honors House may be named for an officer or employee of the University or the State of Ohio who has not been retired from such position for three years.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

NAMING OF BUILDING

Resolution No. 89-73

Synopsis: The Academic Affairs Committee recommended the approval of the following naming of building.

WHEREAS this Board has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS during his 34 years at the University, Dr. Kuhn served as a faculty member, as Chairperson of the Department of English, and as Provost for the longest tenure of anyone in the past twenty-five years; and

WHEREAS Albert Kuhn's love of knowledge and learning and his loyalty to this institution are well-known; and

WHEREAS the President recommended, with the concurrence of the President's Staff, that Honors House be named in honor of and in tribute to Albert J. Kuhn who has been a role model for his faculty colleagues, a mentor for his students, and a most honorable and dignified leader for this community:

NOW THEREFORE

BE IT RESOLVED, That the above described building at 220 West 12th Avenue be named "Albert J. Kuhn Honors Hall" in honor of Dr. Kuhn.
February 3, 1989 meeting, Board of Trustees

NAMING OF BUILDING (contd)

Upon motion of Mrs. Bowser, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

DEGREES AND CERTIFICATES - WINTER QUARTER COMMENCEMENT
Resolution No. 89-74

Synopsis: The Academic Affairs Committee recommended the approval of degrees and certificates for Winter Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on March 17, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS
Resolution No. 89-75

Synopsis: The Academic Affairs Committee recommended the approval of the following Personnel Actions.

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the December 2, 1988 meeting of the Board, including the following Appointment, Reappointments of Principal Administrative Officials, Appointment of Chairpersons and Directors of Academic Faculty, Departments, Program, and Schools, Reappointment of Chairpersons of Departments, Leaves of Absence Without Salary, Professional Improvement Leaves--Change in Dates, and Emeritus Titles as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved December 15, 1988, by the Hospitals Board be ratified.
February 3, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointments

Name: R. REED FRALEY
Title: Executive Director/Assistant Vice President
Offices: University Hospitals/Health Services
Effective: February 27, 1989
Salary: $124,680.00
Present Position: Executive Director of Presbyterian Hospital of Dallas (PHD) and Executive Vice President of Presbyterian Healthcare System (PHS), Dallas, Texas

Name: NOEL MAYO
Title: Professor (Ohio Eminent Scholar in Art and Design Technology)
College: Arts
Effective: October 1, 1989
Salary: $90,000.00
Present Position: President of Noel Mayo Associates, Inc.

Reappointments of Principal Administrative Officials

J. LANCE KRAMER, Assistant Provost for Continuing Education, effective July 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

DONALD P. ANDERSON, Dean of the College of Education, effective May 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

LENA C. BAILEY, Dean of the College of Home Economics, effective July 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

Appointment of Chairpersons and Directors of Academic Faculty, Departments, Program, and Schools

January 1, 1989 through June 30, 1989

- Electrical Engineering: Robert J. Mayhan*
- School of Health, Physical Education, and Recreation: Melvin L. Adelman*
- School of Music: Donald Harris*
- University Honors Program: Alan M. Hausman*
- Zoology: Peter W. Pappas*

April 1, 1989 through September 30, 1989

- Academic Faculty of Labor Education and Research Services: Susan L. Josephs*

*Acting Chair or Director

Reappointment of Chairpersons of Departments

July 1, 1989 through June 30, 1993

- ATI - General Studies: Clyde E. Opliger
February 3, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments (contd)

October 1, 1989 through September 30, 1991

Linguistics

Brian D. Joseph

Leaves of Absence Without Salary

VLADIMIR E. BONDBEY, Professor, Department of Chemistry, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1989, to accept a position in the Department of Chemistry at the Technical University of Munich.

JOHN J. REAGAN, Assistant Professor, Department of Architecture, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1989, to continue in the development of his professional skills.

RAKESH V. VOHRA, Assistant Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1988, to accept a Visiting Faculty position at the University of Pennsylvania, Wharton School of Business.

Professional Improvement Leaves--Change in Dates

ALEXANDER DYNIN, Associate Professor, Department of Mathematics, change leave from Autumn Quarter 1988 and Winter Quarter 1989, to Winter Quarter, Spring Quarter and Autumn Quarter 1989.

C. WILLIAM MCCURDY, Associate Professor, Department of Chemistry, change leave from Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

Emeritus Titles

ALLEN W. HALL, College of Dentistry - Administration, with the title Associate Dean and Professor Emeritus, effective January 1, 1989.

PHILIP W. MURDICK, Department of Veterinary Clinical Sciences, with the title Associate Dean and Professor Emeritus, effective January 1, 1989.

ROBERT G. WHITEUS, Department of Veterinary Clinical Sciences, with the title Assistant Dean and Professor Emeritus, effective January 1, 1989.

JAMES M. DOWDY, School of Natural Resources, with the title Assistant Director and School Secretary Emeritus, effective January 1, 1989.

JOHN L. CRITES, Department of Zoology, with the title Chairperson and Professor Emeritus, effective January 1, 1989.

URHO A. UOTILA, Department of Geodetic Science and Surveying, with the titles Chairperson and Professor Emeritus, effective January 1, 1989.

GEORGE P. CREPEAU, Department of Theatre, with the title Professor and Associate Provost Emeritus, effective January 1, 1989.

ROBERT L. BARTELS, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.
PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

LEO E. BENDIXEN, Department of Agronomy, with the title Professor Emeritus, effective January 1, 1989.

MARY K. BEYRER, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

JOHN L. BLAISDELL, Department of Agricultural Engineering, with the title Professor Emeritus, effective January 1, 1989.

GEORGE G. BLOZIS, College of Dentistry - Diagnostic Services, with the title Professor Emeritus, effective January 1, 1989.

ODUS R. BURGGRAF, Department of Aeronautical and Astronautical Engineering, with the title Professor Emeritus, effective January 1, 1989.

HARRY R. CONRAD, Department of Dairy Science, with the title Professor Emeritus, effective January 1, 1989.

CLARENCE J. CUNNINGHAM, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

LUVERN L. CUNNINGHAM, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

JON S. CUNNYNGHAM, Academic Faculty of Accounting and Management Information Systems, with the title Professor Emeritus, effective January 1, 1989.

JAMES C. DONHAM, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective January 1, 1989.

WALTER F. ERSING, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

JAMES I. FREA, Department of Microbiology, with the title Professor Emeritus, effective January 1, 1989.

ALBERT A. GABEL, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective January 1, 1989.

CHARLES M. GALLOWAY, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

GORDON E. GATHERUM, School of Natural Resources, with the title Professor Emeritus, effective January 1, 1989.

J. BRUCE GRIFFING, Department of Entomology, with the title Professor Emeritus, effective January 1, 1989.

FAZ HAGHIRI, Department of Agronomy, with the title Professor Emeritus, effective January 1, 1989.

MOHAMED Y. HAMDY, Department of Agricultural Engineering, with the title Professor Emeritus, effective January 1, 1989.
February 3, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

E. LEONARD JOSSEM, Department of Physics, with the title Professor Emeritus, effective January 1, 1989.

EDISON L. KLINGLER, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

FELIX P. KOLLARITSCH, Academic Faculty of Accounting and Management Information Systems, with the title Professor Emeritus, effective January 1, 1989.

JULIUS P. KREIER, Department of Microbiology, with the title Professor Emeritus, effective January 1, 1989.

HOWARD B. KRIEBEL, School of Natural Resources, with the title Professor Emeritus, effective January 1, 1989.

MARION E. KROETZ, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

LEO E. LIPETZ, Department of Zoology, with the title Professor Emeritus, effective January 1, 1989.

RONALD K. LONG, Department of Electrical Engineering, with the title Professor Emeritus, effective January 1, 1989.

JOEL H. MAGISOS, Department of Agricultural Education, with the title Professor Emeritus, effective January 1, 1989.

CHARLES L. MAND, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

THOMAS J. MCNUTT, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

WILMA K. MECKSTROTH, Department of Chemistry, with the title Professor Emeritus, effective January 1, 1989.

EDWARD C. NABER, Department of Poultry Science, with the title Professor Emeritus, effective January 1, 1989.

JEREMIAH D. NOLAN, Department of Psychology, with the title Professor Emeritus, effective January 1, 1989.

JOSEPH J. PARNICKY, College of Social Work, with the title Professor Emeritus, effective January 1, 1989.

TONY J. PETERLE, Department of Zoology, with the title Professor Emeritus, effective January 1, 1989.

THOMAS E. POWERS, Department of Veterinary Physiology and Pharmacology, with the title Professor Emeritus, effective January 1, 1989.

GEORGE E. ROPP, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.
Emeritus Titles (contd)

THOMAS D. STEVENSON, Department of Pathology, with the title Professor Emeritus, effective January 1, 1989.

THOMAS M. STOCKDALE, School of Natural Resources, with the title Professor Emeritus, effective January 1, 1989.

ALLEN L. ULRICH, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

BARRY D. VALENTINE, Department of Zoology, with the title Professor Emeritus, effective January 1, 1989.

ROBERT W. VAN KEUREN, Department of Agronomy, with the title Professor Emeritus, effective January 1, 1989.

WILLIAM W. WAYSON, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

LANSEING E. WILLIAMS, Department of Plant Pathology, with the title Professor Emeritus, effective January 1, 1989.

VIRGINIA I. ZIRKLE, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

ROBERT B. ANDERSON, Academic Faculty of Labora Education and Research Services, with the title Associate Professor Emeritus, effective January 1, 1989.

DAVID H. AYERS, Department of Theatre, with the title Associate Professor Emeritus, effective January 1, 1989.

JOSEPH P. BROWN, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

RICHARD M. CAMPBELL, Department of Electrical Engineering, with the title Associate Professor Emeritus, effective January 1, 1989.

INEZ CARDOZO-FREEMAN, Center for Comparative Studies in the Humanities (Newark Campus), with the title Associate Professor Emeritus, effective January 1, 1989.

NANCY R. CLENDENON, Department of Neurology, with the title Associate Professor Emeritus, effective January 1, 1989.

VICTOR D. COLOMBINI, Department of Geography (Lima Campus), with the title Associate Professor Emeritus, effective January 1, 1989.

ROBERT S. CRAWFORD, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

ILSEDORE M. EDSE, Department of German, with the title Associate Professor Emeritus, effective January 1, 1989.
PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

DONALD D. HARPER, School of Health, Physical Education, and Recreation, with the title Associate Professor Emeritus, effective January 1, 1989.

ALBERT O. HUMBERTSON, Department of Anatomy, with the title Associate Professor Emeritus, effective January 1, 1989.

JAMES L. JESSE, Academic Faculty of Labor Education and Research Services, with the title Associate Professor Emeritus, effective January 1, 1989.

DONALD E. KIMMET, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

R. NED KRAMER, College of Dentistry - Pediatric Dentistry, with the title Associate Professor Emeritus, effective January 1, 1989.

DAVID R. MISKELL, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

R. DONALD MOORE, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

PHILIP D. MOORHEAD, Department of Veterinary Preventive Medicine, with the title Associate Professor Emeritus, effective January 1, 1989.

DEAN H. OWEN, Department of Psychology, with the title Associate Professor Emeritus, effective January 1, 1989.

WILLIAM B. PHILLIPS, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

GERALDINE G. PRICE, Department of Family and Community, with the title Associate Professor Emeritus, effective July 1, 1988.

JEANNE M. RUMBURG, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

EDWIN C. SHUTTLEWORTH, Department of Neurology, with the title Associate Professor Emeritus, effective January 1, 1989.

BENNIE L. WHITE, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

TERESA F. BARNES, Department of Communication (Lima Campus), with the title Assistant Professor Emeritus, effective January 1, 1989.

RICHARD O. DAGEFOERDE, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1989.

WALTER M. ERICKSON, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1989.
February 3, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

JAMES E. HENRY, Department of Agricultural Engineering, with the title Assistant Professor Emeritus, effective January 1, 1989.

PAUL R. HOTHEM, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective January 1, 1989.

M. ELIZABETH LLOYD, Department of Art Education (Lima Campus), with the title Assistant Professor Emeritus, effective January 1, 1989.

THEODORE L. MOOR, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1989.

JOAN L. SHARP, School of Allied Medical Professions, with the title Assistant Professor Emeritus, effective January 1, 1989.

LIDA E. WENZEL, Department of Romance Languages and Literatures (Mansfield Campus), with the title Assistant Professor Emeritus, effective January 1, 1989.

IONIA J. ZELENKA, Department of Theatre, with the title Assistant Professor Emeritus, effective January 1, 1989.

FRED B. BOMBACH, College of Dentistry - Diagnostic Services, with the title Clinical Assistant Professor Emeritus, effective January 1, 1989.

JOHN P. STARKS, School of Allied Medical Professions, with the title Clinical Instructor Emeritus, effective January 1, 1989.

FRANCES A. MCNEW, Department of Life Span Process, with the title Instructor Emeritus, effective March 1, 1988.

SHIRLEY A. BROOKS, College of Agriculture - Administration, with the title Assistant to the Vice President Emeritus, effective January 1, 1989.

DICKSON H. CALL, Instruction and Research Computer Center, with the title Associate Director Emeritus, effective January 1, 1989.

ALBERT A. FERDI, School of Journalism, with the title Manager Emeritus, effective January 1, 1989.

MERY L. GONG, Instruction and Research Computer Center, with the title Associate Director Emeritus, effective January 1, 1989.

STEVEN J. GYURO, National Center for Research in Vocational Education, with the title Associate Director Emeritus, effective January 1, 1989.

WILLIAM K. HARRIS, School of Architecture, with the title Administrative Associate Emeritus, effective January 1, 1989.

JAMES T. RUSSELL, Office of Student and Community Services (Newark Campus), with the title Assistant Director Emeritus, effective January 1, 1989.

JOSEPH F. STRANGES, JR., Office of Minority Affairs, with the title Program Director Emeritus, effective January 1, 1989.
February 3, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (cont'd)

Emeritus Titles (contd)

JAMES D. WAGNER, Instruction and Research Computer Center, with the title Manager Data Processing 2 Emeritus, effective January 1, 1989.

RICHARD L. WILLIAMS, Cooperative Extension Service, with the title Business Manager Emeritus, effective April 1, 1988.

Medical Staff--Appointments

DAVID A. PERDZOCK, M.D., Limited Staff, Anesthesiology.

MICHALEEN A. GRECULA, M.D., Attending Staff, Internal Medicine.

DANA J. SCHULTZ, M.D., Courtesy Staff, Pediatrics.

LARRY M. SHEPHERD, M.D., Courtesy Staff, Pediatrics.

YOUNG-MEE LEE, M.D., Courtesy Staff, Division of Emergency Medicine.

DANIEL M. DALUGA, M.D., Limited Staff, Division of Orthopedic Surgery.

AMAL K. DAS, M.D., Limited Staff, Division of Orthopedic Surgery.

SCOTT T. GHERINI, M.D., Limited Staff, Division of Orthopedic Surgery.

ANDREW P. HARAKAS, M.D., Limited Staff, Division of Orthopedic Surgery.

JOSEPH R. DURHAM, M.D., Attending Staff, Division of Vascular Surgery.

Medical Staff--Reappointments

THOMAS H. COLEMAN, M.D., Courtesy Staff, Internal Medicine.

ROBERT P. MYERS, D.O., Courtesy Staff, Pediatrics.

J. BRADFORD JOHNSON, M.D., Limited Staff, Radiology.

CHRISTOPHER S. MORRIS, M.D., Limited Staff, Radiology.

JOHN W. MOORE, M.D., transferred from Limited to Courtesy Staff, Family Medicine.

STEVEN C. HIRSCH, M.D., transferred from Limited to Attending Staff, Division of Cardiology.

JERRY T. GUY, M.D., transferred from Attending to Courtesy Staff, Division of General Medicine.

DAVID C. BELL, M.D., transferred from Courtesy to Attending Staff, Obstetrics/Gynecology.

PATRICIA WONGSAM, M.D., transferred from Courtesy to Attending Staff, Physical Medicine and Rehabilitation.

Upon motion of Mr. Teaford, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
RESOLUTIONS IN MEMORIAM

Resolution No. 89-76

Synopsis: The Academic Affairs Committee recommends the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Roland Francis Bleiholder

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 3, 1988, of Dr. Roland Francis Bleiholder, Assistant Professor in the College of Dentistry - Restorative and Prosthetic Dentistry.

Roland F. Bleiholder was born on June 12, 1937, in Brooklyn, New York. He received his B.S. (Magna Cum Laude) from St. John's College, New York, in 1959, and his Ph.D. in Chemistry from The Ohio State University in 1965.

Dr. Bleiholder began his dental materials experience at the S. S. White Dental Products International Division of Pennwalt Corporation in 1970. He was Director of Research and Development there from 1974 until the time he joined the faculty of Restorative and Prosthetic Dentistry in the College of Dentistry in 1987. Dr. Bleiholder served as a consultant for Johnson & Johnson Dental Division, as well as Battelle Laboratories, Pennwalt Corporation and Deposito Dental Latorre in Bogota, Columbia.

Dr. Bleiholder's contributions to dentistry have earned him international respect and admiration from both dentists and dental researchers as well as from his many co-workers in the College of Dentistry.

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Roald Fay Campbell

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 19, 1988, of Roald Fay Campbell, Professor Emeritus in the Department of Educational Policy and Leadership.

Dr. Campbell was active in the education community for more than 60 years, specializing in administrative behavior, policy making, national influences in education and urban education. He wrote numerous books and articles on his areas of expertise as well as a family biography and an autobiography.

He was born December 4, 1905, in North Ogden, Utah, to Ulysses Fay Campbell and Pearl Ellen Wilson. He was raised in Ogden and Aberdeen, Idaho, and received a teaching certificate from the Idaho Technical Institute. Following a year of teaching and a 30 month mission from the Church of Jesus Christ of Latter-Day Saints, Dr. Campbell obtained B.S. and M.S. degrees from Brigham Young University. He later received a Doctorate of Education from Stanford University.

Dr. Campbell was Chairman of the University of Utah Elementary Education Department from 1942 to 1951, as well as Director of the University's William M. Stewart School, an institution for teaching elementary and high school teachers. Dr. Campbell was also a public school administrator in Idaho
RESOLUTIONS IN MEMORIAM (contd)

Roald Fay Campbell (contd)

and Texas. In a 13-year tenure at the University of Chicago, he was Chairman of the Department of Education, Dean of the Graduate School of Education and Director of the Midwest Administrative Center.

He joined The Ohio State University in the College of Education in 1952, and was the first Novice G. Fawcett Professor of Educational Administration. Upon his retirement in 1974, he was named Professor Emeritus. Following his retirement, he returned to Salt Lake City where he has been an Adjunct Professor at the University of Utah since 1975.

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board’s heartfelt sympathy.

Laurence A. Connor

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 17, 1988, of Laurence A. Connor, Instructor Emeritus in the Department of English.

Professor Connor was born December 19, 1901. He received his B.A. in Journalism in 1927 and his M.A. in English in 1961, both from The Ohio State University. He joined the faculty in 1960 as Assistant Instructor and was promoted to Instructor in 1966. He retired in 1972.

Before returning to graduate school, Professor Connor was Associate Editor of "The Richmond New Letter," a chief Editorial Writer for the "Columbus Dispatch," and the "Ohio State Journal," and an employee of WBNS Radio.

In his career as a teacher he was liked by his students and respected by his colleagues.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was the directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Wilfrid Raymond Foster

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 17, 1988, of Wilfrid Raymond Foster, Professor Emeritus in the Department of Geology and Mineralogy.

"Ray" Foster was born in Fredericton, New Brunswick, Canada, February 14, 1913. He received a B.S. degree in Chemistry at the University of New Brunswick in 1934, his M.S. degree in Chemistry from the Catholic University of America in 1936, and the Ph.D. degree in Geology from the University of Chicago in 1940. He was an Instructor in Geology at the Catholic University in 1940-1941, and Instructor in Mining and Ceramics at Pennsylvania State University in 1941-1942, and a petrographer at the Champion Spark Plug Company in Michigan from 1942-1952. He became Associate Professor at The Ohio State University in 1952 and was named Professor and Chairman of the Department of Mineralogy in 1957. He served in this capacity until 1972 when the departments of Geology and Mineralogy were merged. He continued as a professor in the combined departments until his retirement in 1979.
RESOLUTIONS IN MEMORIAM (contd)

Wilfrid Raymond Foster (contd)

Dr. Foster was a member of and elected to fellowship in the American Ceramic Society, the Mineralogical Society of America, the Geological Association of Canada, the Ohio Academy of Science, and the American Association for the Advancement of Science. He was elected and skived as a Councillor of the Mineralogical Society of America from 1959 to 1961. He was a member of Sigma Hi, Phi Lambda Upsilon, Sigma Gamma Epsilon, and the Knights of Columbus, named in Who's Who's in America and American Men of Science, and was an honorary member of Keramos.

Professor Foster's teaching and research interests were in high-temperature phase-equilibrium studies in relation to petrology and technology but his expertise was broad enough so that he also taught a course on meteorites. Fourteen Ph.D. and 3 Masters students received their degrees under his supervision. He authored or coauthored nearly 50 specific papers and articles and was the recipient of NSF and other grants to support his research.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Devon W. Meek

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 7, 1988, of Devon W. Meek, Professor Emeritus and former Chairperson in the Department of Chemistry.

Professor Meek was born on February 24, 1936, in River, Kentucky. His undergraduate training was received at Berea College where he completed a Bachelor of Arts degree in Chemistry in 1958. Subsequently, at the University of Illinois he received graduate training in Chemistry and completed the M.S. degree in 1960 and the Ph.D. degree in 1961. Upon graduation from Illinois, he joined The Ohio State University as an Assistant Professor of Chemistry, was promoted to Associate Professor and full Professor in 1966 and 1969, respectively. He assumed the Chairmanship of the Department in 1977 and then again in 1986. Upon his retirement in 1988, he was named Professor Emeritus.

Professor Meek became well known in the scientific community for his studies in the area of Inorganic Chemistry which focused on transition metal complexes with unusual coordination numbers. These included studies of phosphine ligands of the transition metal complexes as catalysts, their spectral properties, and their structural characteristics. During the course of his career, he trained 45 graduate students and 10 postdoctoral associates. His studies have resulted in over 160 publications in the chemical literature.

Professor Meek was recognized for his work with appointments as a Visiting Scholar at Northwestern University, as a Senior Research Fellow at the University of Sussex, and as a Guggenheim Fellow at Cambridge University and the University of California at Berkeley. He served as a consultant for Procter and Gamble Company, Shepherd Chemical Company, Argonne National Laboratories, and Harper and Row Publishing Company. He was also an active member of the American Chemical Society where he was elected as the Secretary of the Inorganic Division.

During his years of service as Chairperson of the Department of Chemistry, he was responsible for a major expansion of the faculty and the construction of the new chemistry building. He devoted significant effort to foster close ties between the Department and industrial corporations and established the successful Industrial Associates Chemistry Program.
February 3, 1989 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Devon W. Meek (contd)

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Everett John Nelson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 29, 1988, of Everett John Nelson, Professor Emeritus in the Department of Philosophy.

Dr. Nelson was born on October 18, 1900, in Castle Rock, Washington. He received his A.B. degree (1923) and an A.M. degree (1925) in philosophy from the University of Washington. He also earned an A.M. degree (1928) and his Ph.D. (1929) from Harvard University. The next year he studied at Goettingen, Freiburg, and the Sorbonne as a Sheldon Traveling Fellow from Harvard.

Dr. Nelson then started his academic career in 1930 at the University of Washington, serving as Professor (1941-52) and as Chairman (1947-52). He joined The Ohio State University as Professor and Chairperson in 1952, serving as Chair until 1968. Upon his retirement in 1971, Dr. Nelson was named Professor Emeritus.

During his career, Professor Nelson was a visiting professor at several universities, including Chicago, Columbia, Harvard, and Washington, and he was a Guggenheim Fellow (1939-40). He was a member of professional and honorary organizations, including the AAUP; the Association for Symbolic Logic (serving as consulting editor of the Journal of Symbolic Logic from its inception in 1936 until 1950); the Metaphysical Society of America; and the American Philosophical Association. For the latter, he served as National Chairman of the Board of Officers and as President of the Pacific Division (1946-47), and as President of the Western Division (1966-67). He also served as Lieutenant, USNR (1943-44), retiring as Lt. Commander.

Bringing to Ohio State an international reputation as a logician and metaphysician, Dr. Nelson initiated the period of the Department's recognition as a major graduate center. During his tenure as Chair, the number of graduate students increased to about sixty, and the faculty grew from nine to eighteen. A number of philosophers who either were or became well-known in the profession were brought to Ohio State during this period. In every respect, Professor Nelson was a vibrant and upright leader who, as one of his colleagues attested, possessed "purity of intellect... coupled with an incredible generosity of emotion."

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Walter Cade Reckless

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 20, 1988, of Walter Cade Reckless, Professor Emeritus in the Department of Sociology.

Walter Reckless was born on January 19, 1899, in Philadelphia, Pennsylvania. He received a Ph.B. in the Social Sciences from the University of Chicago in 1921, where he also completed the Ph.D. in Sociology in 1925.
February 3, 1989 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Walter Cade Reckless (contd)

After receiving the doctorate, Professor Reckless joined the faculty of Vanderbilt University (1924-1940). He came to The Ohio State University in 1940 where he joined the Emeriti ranks after nearly thirty years (1969). He was a Visiting Professor at numerous major institutions in the U.S. and abroad such as the University of Michigan, Florida State, University of Ottawa, University of Munster in Germany, and the Tata Institute of Applied Social Science in India.

A pioneer in American Criminology and corrections, Dr. Reckless amassed a gigantic record of scholarship, instruction, and service. His numerous books and other publications were ground breaking and continue to be valuable sources of learning. The graduate and undergraduate programs he developed and nurtured made Ohio State a premier place that attracted students from the many corners of the country and the globe. His students are well-placed in academia, in Federal criminal justice agencies, and at the state and local levels. Following his footsteps, several of his students occupied positions of leadership in important scientific and professional organizations. Professor Reckless contributed heavily to the professionalization of probation and parole and the juvenile court system. He attended endless meetings and testified before the Legislature on these and other matters affecting correctional policies, programs, and budgets. He served as consultant to many agencies both in the U.S. and other countries and to the United Nations’ Social Defense Section (Crime Prevention).

Professor Reckless’ voluminous contributions and tireless efforts in instruction and service have earned him many awards and recognitions. Important among these is President of the American Society of Criminology for three terms, Chairperson of the Criminology Section of the American Sociological Association, and an early recipient of The Ohio State University Distinguished Service Award in 1981.

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board’s heartfelt sympathy.

John W. Vaughn

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 2, 1988, of John W. Vaughn, Associate Professor in the Department of Classics.

Professor Vaughn was born January 11, 1947. He received his B.A. from St. Peter’s College in 1969, and his Ph.D. from Johns Hopkins University in 1973. He joined the faculty at The Ohio State University in the Department of Classics in 1974.

Winner of the Rome Prize Fellowship in 1973-1974, Professor Vaughn published studies in Hellenistic poetry, Cicero, and Roman law. In 1981 he received The Ohio State University Alumni Award for Distinguished Teaching, and at the time of his death he was serving as Director of Graduate studies in the Department of Classics.

Professor Vaughn, who had received support from the American Council of Learned Societies for his work on Theocritus, was a founding member of the Roman Law Society of America.

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board’s heartfelt sympathy.
RESOLUTIONS IN MEMORIAM (contd)

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Amb. Wolf:

Mr. Chairman, the Student Affairs Committee met this morning and heard a report from Mr. William Hall, who is the Director of Dormitories and Dining Facilities. He focused mainly on the financial aspects and the statistics and it was a very interesting report. It is nice to know that we are operating that department in the black. The budget is about $36.5 million. We have about 11,000 students that we are housing and we are serving about 3.5 million meals a year. It seems, and everyone felt, that the Department is very well handled and we were all satisfied with the overview presented to us by Mr. Hall. That is a brief summary of what took place. Are there any questions?

I would like to call on Roger Musgrave for the report on CGS.

Mr. Roger Musgrave:

Good afternoon. We are in the middle of a lot of plans which will be worthy of reporting by your next meeting. So I will put off the activities report and ask you to bare with me for about five minutes on a discussion of some graduate associate issues that have been raised at the most recent Council of Graduate Students meeting. Some are positive, some are less so, and one has relatively broad implications.

Within that framework I will start off as positive as possible. We would like to express appreciation on behalf of all graduate students holding Graduate Associateships to those who worked to eliminate the necessity for us to file city income tax returns to get the tax back we're owed from last year while fee authorizations were considered taxable income by the federal government. We want to publicly offer special thanks to Helen DeSantis in Personnel Services; Controller Janet Achterman; those with whom they worked in University Systems; all the staff members in those offices who actually cut the checks and did the recalculations; Dean Koenigsknecht and his staff; and the nameless and often faceless people in the city administration that made it possible for this to happen this year.

Mr. Teaford:

I don't know if the Board -- all of the Board, especially those from outside Columbus, realize what happened. As I understand it, the City sent one check to the University for those refunds and then the money was passed out and nobody had to file a city income tax return to get their refund.

Mr. Musgrave:

Correct.

President Jennings:

The City has done that and it was a very nice gesture on the part of the City in order to do that. And we were able to do that because of course the withholding tax and the total
President Jennings: (contd)

city income tax are the same, so that whatever the students' other income might be, the
taxes are not affected by that.

Mr. Musgrave:

We just want to make sure folks realize the graduate associates, in general, appreciate
the professional staff here for going above and beyond the call of duty in doing the extra
work to get that to us.

Graduate Associates found this past Tuesday an even more comfortable and happier
kind of day, because they also found stipend increases in their paychecks. While any
increase is most welcome to all Grad Associates the Council does wish several points to
be made in the public setting. The minimum stipend level increase this year reflects an
increase of 3.76%, which is good. And while the figure will vary depending on where
you look, last year's national inflation rate is quoted at around 4.5%, and it may be
higher than that in an area with a hot economy like Columbus. So the minimum stipend
increase looks a little less good. And when you consider how little of a stipend is
discretionary income for graduate students subsisting on that income alone and the
disproportionate effect felt by such people when faced with increases in the costs of
things such as housing, clothing, food, not to mention telephones, textbooks, journal
subscriptions and even student health insurance, things don't really look all that good for
minimum stipend increases.

One of our concerns is that there seems to be a common conception, even among many
of the faculty we speak with that there are ample guaranteed student loan funds
available to supplement the income of graduate students that can't quite make it on the
stipend. After all, a lot of them say, "look at the millions in the federal budget for those
programs." And that is just flat not the case. Our financial aids folks have to live within
federal guidelines in determining local eligibility for guaranteed student loans. A lot of
our graduate students find themselves eligible for a few hundred dollars a year which
might pay for their books and lab fees, but which won't go far towards the kid's
orthopedic shoes or their braces or a lot of other things that these people who are
students happen to face.

When broaching this subject with department chairs, graduate studies committee chairs
and a lot of other administrators, grad associate representatives are often told that Ohio
State has stipend levels that are very comparable to other major research universities in
the country. This may be so, but there are two points that the Council wishes to make
with regard to that response. First, on very few other levels do we encounter rhetoric
which says this University is average, we are going to site that and that is right where we
want to stay. We hope that those who create the budget policy and the details therein
will realize that stipend salaries have at least as much and perhaps even more impact on
attracting quality graduate students as they do on attracting quality faculty and quality
nursing staff, etc., right on down the line. And we certainly recognize the challenges
posed by the budget, but we also ask that that side of this issue be considered.

Our final problem with the logic behind statements that are essentially premised on the
argument that everyone else does it, is that such logic is identical to that which was
offered for so many years to minorities and females when they would ask for more
reasonable compensation for the services they performed. That alone invalidates the
logic for some, but we would also like to ask that all involved recognize the danger of
reserving graduate education for those from mid to upper level socio-economic groups,
those with outside resources to fall back on as they devote 2-6 years of their lives to
Mr. Musgrave: (contd)

graduate research and study in which there is really only time to work those 20 hours a week as a G.A. And you really can't go out and wait tables on the side and still do a graduate education.

To the extent that this occurs, we are exacerbating problems faced by search committees nationwide as they seek to perform affirmative action work to try to break down some of the white male homogeneity that existed for so long in academia. With no intention of taking a condematory stance at all, we ask that our institution consider whether its actions aimed at helping to improve the pool of minority and female faculty members, are as affirmative as they should be and if they take enough factors in to account. Again, we appreciate the effort made this year to increase stipend levels, but we ask that consideration always be given to increases beyond what seems minimally acceptable.

And to close I have been asked to read the text of a very short resolution adopted by the Council at its most recent meeting:

"We are very glad to hear that the discussion of the whole pedestrian campus concept and other space issues is to be reopened and we are heartened by the existence and work of Vice President Marsh's mid and long-range planning committee.

"At the January 8 meeting, our Council adopted the following reaffirmation of the resolution of May 31, 1987. The Council of Graduate Students urges that if the pedestrian campus concept is approved by the administration, that the inner campus areas be accessible to cars at night. Among our concerns are the following: graduate students and faculty often must teach and attend classes in this area at night; many graduate students find it necessary to do other work which can only be performed within the buildings in this area during the evening and late night hours; access requirements will increase even more as graduate students and faculty seek to use the new library plan for 18th Avenue; and both access and safety issues are very important to those with physical disabilities who rely on parking in this area. It is important to maintain the current level of safety for those working on campus by continuing to provide the current level of access to parking in close proximity to all buildings."

We understand that there have been a number of new public hearings scheduled on the whole issue and we will do everything we can to enhance turnout at those hearings.

And finally we are looking forward -- we were also real happy with the slate of potential new Student Board Members sent to Governor Celeste. We are looking forward to working with these folks who are going to work with you. And we very much appreciate what we perceive as your acceptance and enthusiasm about having student members on the Board. Thank you.

Amb. Wolf:

Thank you. Ms. Athena Yiamouyiannis, President of the Undergraduate Student Government --
Ms. Yiamouyiannis:

Mr. Chairman, President Jennings, Members of the Board of Trustees, good afternoon.
The Undergraduate Student Government has been very active this quarter finishing up
projects, starting new projects, and dealing with very important student issues.

To start with I would like to discuss the tuition increase the students will be faced with
next year. A 23% - 40% tuition increase is before us and the students at OSU are very
concerned. It is my belief that Ohioans should have the opportunity to attend college.
Affordable tuition is the principle behind public institutions and that opportunity for
education. The move away from the focus of higher education will only hurt current
students, potential students, and the entire state in general. USG is actively involved in
pursuing this issue. The Undergraduate Student Government Vice President, Scott
Mounts, is heading a letter writing campaign. We have sent out letters to all student
organization leaders with a fact sheet and a sample letter encouraging everyone in their
group and their affiliates to write to their legislatures and to voice their concerns on the
biennium budget and the proposed tuition increase. Also, Scott Mounts and legislative
affairs cabinet member, Carrie Zeigel, are members of the executive board of the Ohio
Students Association. This association is an organization comprised of the 13 public
institutions' leaders from the student governments. They are working statewide to
continue this effort flooding legislators with mail about students' concerns regarding
affordable tuition. USG assembly is also actively involved in this, reaching out to their
constituency for support. Assembly member Tom Heading wrote a petition addressed to
Governor Celeste describing the impact of the tuition increase on students if action isn't
taken. A 23%-40% increase in tuition is quite substantial and we are looking to try to
stop it if we can.

Going on to other USG matters -- at the last Senate meeting, Amy Riemenschneider
from the Committee of Women and Minorities presented the committee report to the
Senate. As the report states, of the 30 professors that were appointed last year, only
one was a female and only one was a minority. As I said at the last meeting, over half
the OSU students are female and again this year we only have 7% at the full professor
level being female. USG assembly discussed the issue and passed a resolution in
support of the recommendations made by the Committee on Women and Minorities. We
recommend that OSU take immediate action to improve the gender imbalance at the
upper faculty levels.

I would like to now go into some other activities that USG is involved in. I think everyone
received a report on financial aid that USG cabinet member Jennifer Murray compiled.
The USG Financial Aid Forum was held on Monday, January 30. Students were given
information on how to fill out the financial aid form correctly and they had an opportunity
to have questions answered on financial aid concerns.

Student concern has been brought up about the world wide destruction of the rain
forests. USG sponsored Dr. Mark Bush, an OSU professor in Zoology and Ecology to
speak to the public on this topic of "Rain Forest Destruction -- Is it our Concern?" We
had a very good turnout. This was held last night at the Ohio Union conference theatre.
About 150 students and faculty members showed up for the presentation.

Another project that USG is working on is the USG AIDS Awareness project in
conjunction with the Gay and Lesbian Alliance. We are distributing 10,000 AIDS
pamphlets to undergraduate students. The pamphlets were compiled by the
Department of Health and Human Services and are a type of educational support from
the student government.
Ms. Yiarnouyiannis: (contd)

In honor of United Black World Week, which is February 11 - 18, USG has planned an event for the students -- the USG Minority Affairs Reception to celebrate students’ sensitivity to diversity. USG Minority Affairs cabinet member Tyron Alexander conferred with many University faculty members, students and administrators during Fall Quarter. He will be speaking on the report that he compiled and will be making statements about his observations and suggesting ways for student affirmative action. He is going to be working to establish equality and better interaction between different ethnic groups. In addition, we are trying to have two other student leaders come and speak -- the co-chairs of the Student Involvement On Racism Task Force. All OSU students are invited to attend the celebration and it is going to take place on the third floor of the Ohio Union, Stecker Lounge from 5:00 - 6:30 p.m. on February 16. Members of the Board, you are also invited to attend.

To conclude, I would like to say that I am very pleased that Governor Celeste has made a selection for the two student members to the Board. Laurel Davis and Sophia Paige will be an excellent addition to the current Board. That ends my report.

Mr. Immke:

Athena, I don't believe we received that financial report you spoke about. Would you please send a copy to Mr. Scott for distribution.

Athena Yiarnouyiannis:

Yes, of course.

Mr. Wolf:

That concludes our report.

(See Appendix XVIII for complete text of The Ohio State University, Division of Student Affairs, Office of Residence and Dining Halls, page 751.)

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mr. Teaford:

I know I will disappoint the Board by making a brief report, but I shall do that anyway. We did have a report on what OARDC and Cooperative Extension are doing with regard to their budget efforts, which as you know are a separate line-item from the rest of the University. The most encouraging thing heard is that they have gotten all of the agribusiness people together in this State to lobby as one, beginning at the grass roots. I think that there could not be a better way to ensure a good appropriation in that regard.

We also heard a report on the Development Fund campaign in the College of Agriculture. And I suspect if the rest of the University were doing as well, we would probably be at around $700 million right now. But I thought the most encouraging thing about the agriculture fund raising was how much they were able to fulfill their wish list -- how much of the money is going for the projects which they had hoped it would go for in the beginning. It is certainly well above the University average. That concludes my report, Mr. Chairman.
February 3, 1989 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE (contd)

President Jennings:

I think it is important for the Board to recognize that while the tuition issues associated with the Governor's budget are certainly extraordinarily important, it should not be forgotten that in the tax proposals there are no recommendations for agriculture, medicine, or the health sciences in the income tax proposal. We should all recognize that when we are talking about these appropriations, it is not just tuition for Ohio State and higher education that is being shorted, agriculture and medicine are also being shorted in these recommendations.

(See Appendix XX for complete text of The Ohio State University, College of Agriculture Development Update, January 1989, page 767.)

--0--

President Jennings:

You had before you earlier this morning the contract for the $20 million project on PCBs. You heard an objection from the Westinghouse people to the General Electric bid. We have received an opinion from counsel -- counsel is incidentally the Vorys firm in this -- that the General Electric bid is in conformity with State statute. Therefore, I recommend that we award that contract to General Electric this afternoon. We would seek your approval for that.

AWARD OF CONTRACTS
PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE
Resolution No. 89-77

Synopsis: Adoption of a plan and the award of a contract for the disposal of all Polychlorinated Biphenyl (PCB) contaminated fluids in all University Electrical equipment and the upgrading of certain electrical distribution equipment on the Columbus Campus is recommended.

WHEREAS the U.S. Environmental Protection Agency has promulgated regulations requiring that PCB compounds in certain electrical equipment be properly disposed of by October 1, 1990; and

WHEREAS the University wishes to eliminate the use of PCB contaminated electrical equipment on the Columbus and regional campuses to remove any health and safety risk to faculty, staff, students, and the general public caused by the present use of PCB materials; and

WHEREAS the University deems it prudent to upgrade and modernize certain sections of the Columbus Campus electrical distribution system to correct distribution deficiencies and improve the general reliability of the system; and

WHEREAS this PCB Elimination and Electrical System Upgrade Project will take two years to complete and the estimated capital cost of the project will be approximately $20 million, to be financed through long-term debt, with the debt service being financed through higher campus electrical energy rates; and

WHEREAS to implement this PCB Elimination and Electrical System Upgrade Project, the University prepared specifications and solicited competitive bids; and

WHEREAS bids were received from Westinghouse Electric and General Electric, and General Electric submitted the lowest responsive and responsible bid: 695
February 3, 1989 meeting, Board of Trustees

AWARD OF CONTRACTS
PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE (contd)

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees of The Ohio State University hereby accepts the report on "The Polychlorinated Biphenyl (PCB) Elimination and Electrical System Upgrade Project" and adopts the recommendations contained in this report; and

BE IT FURTHER RESOLVED, That the Board of Trustees of The Ohio State University hereby awards the contract for the PCB Elimination and Electric System Upgrade Project to GE-Industry Services Engineering and directs the President and/or Vice President for Business and Administration to take all necessary and appropriate actions to implement the award.

Upon motion of Mr. Teaford, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXI for complete text of The Ohio State University PCB Elimination and Electrical System Upgrade, page 771.)

--0--

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

Fiscal Affairs met as a full Board committee meeting this morning. Jim Jones, Director, presented a report on the fiscal situation of the Department of Athletics, and summarized that Department's priorities in facility needs. The emphasis is on generating resources to upgrade and modernize existing facilities prior to selective development of new facilities. (See Appendix XXII for complete text of The Ohio State Athletic Department Approved Budget 1988-89, page 779.)

Janet Achterman, University Controller, reviewed the University's Annual Financial Report for the fiscal year ending June 30, 1988. The external auditors, Touche Ross & Company certified that the statements fairly represented the University's financial position. With the recognition of the expense of the early retirements of faculty and staff being totally recognized during the fiscal year and the use of prior balances by various units of the University. The current funds equity declined by $40 million over the fiscal year. This decline is expected to occur again in the current fiscal year due to additional early retirements in June through December plus the continued emphasis on reallocations due to limited levels of State support. (See Appendix XXIII for complete text of the University Financial Report for the Fiscal Year ending June 30, 1988, page 786.)

The 1988-89 Second Quarter Current Funds Budget Report showed adjustments from the budget this Board approved in June of $6.8 million. These adjustments were primarily due to changes in the amounts of state funding and tuitions based upon actual Autumn Quarter enrollments as well as increased performance in sponsored research. (See Appendix XXIV for complete text of The Ohio State University, 1988-89 Current Funds Budget - 2nd Quarter Report, page 791.)

The Governor's budget request for the next biennium was summarized, which with annual increases of 3.3% and 3.5% over the next two years without new tax revenues, leaves this University in a difficult financial situation. If this budget is the final result,
February 3, 1989 meeting, Board of Trustees

FISCAL AFFAIRS COMMITTEE REPORT (contd)

Mr. Kessler: (contd)

without recognition of Ohio State's prior actions to hold down tuitions, it will force extraordinary tuition increases as well as internal expenditure limitations over the next two years.

The Waiver of Competitive Bidding over the past three months were reviewed and approved as summarized by Mr. Jackson. These 30 waivers totalling $841,700, were primarily emergency and/or unique purchases which did not warrant competitive bidding. (See Appendix XXV for complete text of Waivers of Competitive Bidding Requirements - October - December 1988, page 797.)

In addition, to this report the Committee is recommending the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 89-78

Synopsis: The Fiscal Affairs Committee recommends the approval of the following reports on contracts, grants, and gifts and the summaries for November and December 1988.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the months of November and December 1988 be approved.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR NOVEMBER 1988

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>84</td>
<td>$6,931,304.50</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>32</td>
<td>$160,993.00</td>
</tr>
<tr>
<td>Total</td>
<td>116</td>
<td>$7,092,297.50</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The Janice Carson Beatley Herbarium Fund
  (Field Research in plant systematics and ecology) $50,000.00
- The John A. Prior Professorship Fund
  (Establishment of a full professorship) $34,997.83
- The Suzanne Kolarik Underwood Scholarship Fund
  (Scholarship - architectural design) $30,600.00
- The GAR Foundation Scholarship Fund
  (Financial assistance for students enrolled in the College of Law) $25,000.00
- The R.M. Harpham, Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority Scholarship Fund
  (Scholarships - School of Architecture) $21,000.00
- The All American Youth Horse Show Endowment Fund
  (Scholarships - members of the 4-H horse program) $15,000.00
- The Martha Miller Lotman Memorial Scholarship Fund
  (Scholarships - Marion Campus) $15,000.00
- The Sigmund & Rita Munster and Family Athletic Endowment Fund
  (Grant-in-Aid costs of a student-athlete who is a member of the football squad) $15,000.00

Change in Description of Named Fund

- The Optometry Class of 1953 Endowed Scholarship Fund
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR DECEMBER 1988

**Background**

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>93</td>
<td>$11,102,535.08</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>60</td>
<td>$36,918.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>153</strong></td>
<td><strong>$11,139,453.08</strong></td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

**Establishment of Named Funds**

- The E. F. Wildermuth Foundation Professorship Fund in Optometry (Scholarships) $50,000.00
- The Edward M. Alkire Scholarship Fund (Scholarships - College of Social and Behavioral Sciences) $15,000.00
- The Derek H. Busch Memorial Award Fund (Scholarship - School of Music) $15,000.00
- The W. Chaney and Jane S. Vance Family 4-H Fund (Scholarships - College of Agriculture or College of Home Economics) $15,000.00

**Change of Name and Description of Named Fund**

From: The Department of Philosophy Faculty Support Fund
To: The Steve R. and Sarah E. O'Donnell Professorship in Philosophy
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Federal Research Contracts/Grants

$1,275,000.00 - National Aeronautics and Space Administration, Washington, DC, A Center for Commercial Development of Space: Real-Time Satellite Mapping, Center for Mapping (J. D. Bossler), Department of Electrical Engineering (K. L. Boyer), Department of Geodetic Science (G. C. Dedes, C. C. Goad, and A. F. Schenk), Department of Civil Engineering (D. Eckert, J. G. Lyon, M. R. McCord, and T. H. Wu), Department of City and Regional Planning (S. I. Gordon), Department of Agronomy (T. J. Logan), Department of Geography (H. J. Moeller), Department of Agricultural Engineering (J. C. Papritan and A. D. Ward), Department of Landscape Architecture (J. W. Simpson), Department of Geology and Mineralogy (R. R. Von Frese), 1 September 1988 through 31 August 1989. (Project 765707 - Continuation)


$299,947.00 - National Science Foundation, Washington, DC, Mathematics through Technology: Establish Concepts and Skills of Graphing and Functions in Grades 9 through 12, Department of Educational Theory and Practice (A. Osborne and G. Foley) and Department of Mathematics (F. Demana and B. Waits), 1 November 1988 through 31 October 1989. (Project 766335 - Continuation)

$199,967.00 - Department of Health and Human Services, Public Health Service, National Center for Health Services, Research and Health Care Technology Assessment, Rockville, MD, Heart Health for Southeast Asians in Franklin County, Ohio, School of Health, Physical Education and Recreation (M. S. C. Chen), Department of Family Medicine (R. M. Guthrie) and Department of Sociology (W. Li), 1 November 1988 through 31 October 1990. (Project 767139 - New)


$190,000.00 - Department of the Army, Army Corps of Engineers, Vicksburg, MS, ARMS Acoustics-Based Resuspension Measurement System for In-Place Estimates of Entrainment and Erosion from Dredged Material Disposal Sites, Department of Civil Engineering (K. W. Bedford), 1 October 1988 through 30 September 1989. (Project 766710 - Continuation)

$143,189.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Redox and Electron-Transfer Properties of Flavodoxins, Department of Biochemistry (R. P. Swenson), 1 December 1988 through 30 November 1989. (Project 767166 - New)

$140,883.50 - Department of Health and Human Services, Public Health Service, Center for Disease Control, Atlanta, GA, Study to Evaluate the Impact Strategies to Improve Prevention Behaviors and Reduce the Risk for Lower Extremity Amputation in Persons with Diabetes Mellitus, Department of Internal Medicine (S. Cataland), 30 September 1988 through 29 September 1990. (Project 767120 - New)

$134,104.00 - Department of the Interior, Geological Survey, Reston, VA, Digital Line Graph Hypsography Enhancement, Center for Mapping (J. D. Bossler), 1 October 1988 through 30 September 1989. (Project 767156 - New)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$116,000.00 - Department of the Army, Army Material Command, Fort Monmouth, NJ, Computer-Communication Protocols for ISDNs (Integrated Services Digital Networks), Department of Computer and Information Science (M. T. Liu), 1 March 1988 through 30 November 1989. (Project 766613 - Continuation)

$100,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH, Effects of Ice Formation on 2-D Aerodynamic Shapes, Department of Aeronautical and Astronautical Engineering (M. B. Bragg and G. M. Gregorek), 1 November 1988 through 31 October 1989. (Project 762009 - Continuation)

$97,259.00 - Department of the Navy, Office of Naval Research, Arlington, VA, Pack Cementation Coating of Ni-Base and Co-Base Alloys to Combat Low Temperature Hot Corrosion, Department of Materials Science and Engineering (R. A. Rapp), 1 November 1987 through 31 October 1989. (Project 765839 - Continuation)

$92,000.00 - National Science Foundation, Washington, DC, Physical Studies of Xanthine Oxidase and Arsenite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 November 1988 through 30 November 1989. (Project 767140 - New)


$86,760.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspels), 1 November 1988 through 30 September 1989. (Project 765385 - Continuation)

$86,540.00 - Department of the Navy, Office of Naval Research, Arlington, VA, High-Level Connectionist Models, Department of Computer and Information Science (J. B. Pollack), 1 January 1989 through 30 September 1989. (Project 767172 - New)

$85,505.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Fort Collins, CO, Evaluation of Economics and Epidemiologic Data from the National Animal Health Monitoring System (NAHMS): Identifying Bacterial Agents Associated with Bovine Mastitis and Special Studies with the NAHMS Core for Mastitis in Dairy Cattle, Department of Veterinary Preventive Medicine (G. Y. Miller), 1 October 1988 through 30 September 1989. (Project 766673 - Continuation)

$83,181.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, A Study of DNA Intercalating Aromatic Amino Azides, Department of Chemistry (M. S. Platz), 1 December 1988 through 30 November 1989. (Project 765804 - Continuation)

$75,000.00 - National Science Foundation, Washington, DC, Superconductive Glass State and Other Properties of Granular Materials, Department of Physics (D. G. Stroud), 1 April 1989 through 31 March 1990. (Project 766614 - Continuation)

$75,000.00 - Department of Energy, Argonne, IL, Strongly Interacting Fermion Systems, Department of Physics (J. W. Wilkins), 15 November 1988 through 14 May 1989. (Project 766783 - Continuation)
February 3, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Institution</th>
<th>Details</th>
<th>Principal Investigator(s)</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$72,936.00</td>
<td>National Science Foundation, Washington, DC</td>
<td>Manipulation of Objects by Means of Phased Movements of Multiple Fingers, Department of Mechanical Engineering (K. J. Waldron)</td>
<td>1 December 1988 through 31 March 1990</td>
<td>(Project 766443 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$69,655.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH</td>
<td>Modeling of Gear Dynamics, Housing Noise and Transmissibility of a NASA Spur Gear Test Facility, Department of Mechanical Engineering (D. R. Houser and R. Singh)</td>
<td>9 January 1989 through 8 January 1990</td>
<td>(Project 765863 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$64,175.00</td>
<td>Department of the Air Force, Air Force Systems Command, Griffis Air Force Base, NY</td>
<td>Explanation in Problem-Solving and Planning Systems, Department of Computer and Information Science (B. Chandrasekaran)</td>
<td>1 October 1988 through 15 1989</td>
<td>(Project 764562 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$56,233.00</td>
<td>National Science Foundation, Washington, DC</td>
<td>Cretaceous and Tertiary Strata of the James Ross Basin and the Evolution of the Antarctic Peninsula, Byrd Polar Research Center and Department of Geology and Mineralogy (D. H. Elliot)</td>
<td>15 October 1988 through 14 October 1989</td>
<td>(Project 767154 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$50,000.00</td>
<td>Department of the Army, Army Materiel Command, Dover, NJ</td>
<td>Synthesis of Polynitro Cage Molecules, Department of Chemistry (L. A. Paquette)</td>
<td>1 May 1988 through 29 April 1990</td>
<td>(Project 765379 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$48,890.00</td>
<td>Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, DC</td>
<td>Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering (T. Herbert)</td>
<td>1 October 1988 through 31 March 1989</td>
<td>(Project 766854 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$48,144.00</td>
<td>National Science Foundation, Washington, DC</td>
<td>Presidential Young Investigator Award, Department of Civil Engineering (M. R. McCord)</td>
<td>1 January 1989 through 31 December 1989</td>
<td>(Project 766242 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$45,139.00</td>
<td>Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD</td>
<td>Comparative Aspects of Peripheral Lung Mechanics, Department of Veterinary Physiology and Pharmacology (L. E. Olson)</td>
<td>1 December 1988 through 30 November 1989</td>
<td>(Project 765821 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$41,600.00</td>
<td>National Science Foundation, Washington, DC</td>
<td>Cenozoic Sea-Level and Glacial Variation in the Western Ross Sea, Antarctica, Through Diatom Paleocology and Stratigraphy, Byrd Polar Research Center (D. H. Elliot and D. M. Harwood)</td>
<td>1 February 1989 through 31 January 1990</td>
<td>(Project 767155 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$37,000.00</td>
<td>National Science Foundation, Washington, DC</td>
<td>Molecular Beam Reactions Involving Metal Hydroxides and Hydrides, Department of Chemistry (J. M. Parson)</td>
<td>1 June 1989 through 31 May 1990</td>
<td>(Project 765988 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$36,229.00</td>
<td>National Science Foundation, Washington, DC</td>
<td>Secular Climate and Atmospheric Circulation Fluctuations over the Atlantic Area, Department of Geography (J. C. Rogers)</td>
<td>1 November 1988 through 31 October 1989</td>
<td>(Project 767077 - New)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$27,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Campylobacter pylori in the Gnotobiotic Piglet, Department of Veterinary Pathobiology (S. G. Krakowka and K. A. Eaton), 1 January 1989 through 31 December 1989. (Project 767150 - New)

$25,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH, Adaptive Arrays for Satellite Communication, Department of Electrical Engineering, ElectroScience Laboratory (I. J. Gupta and E. K. Walton), 20 October 1988 through 28 February 1989. (Project 764040 - Continuation)

$20,838.00 - National Science Foundation, Washington, DC, Computer-Aided Design and Measurement Microwave Workstation for Undergraduate Instruction, Department of Electrical Engineering (P. Roblin and G. J. Valco), 15 November 1988 through 31 October 1990. (Project 767171 - New)

$20,004.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Fe Receptor Signal Transduction in the Human Platelet, Department of Internal Medicine (C. L. Anderson and G. P. Anderson), 1 November 1988 through 31 October 1989. (Project 767145 - New)

$18,000.00 - National Aeronautics and Space Administration, Washington, DC, Rapid Prototyping with Centaurs, Department of Industrial and Systems Engineering (P. J. Smith), 30 September 1988 through 30 September 1989. (Project 765706 - Continuation)

$15,444.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD, Ultraviolet Spectroscopy of Planetary Nebulae: Cosmological Implications, Department of Astronomy (G. J. Ferland, B. M. Peterson and E. R. Capriotti), 15 December 1988 through 14 December 1989. (Project 766473 - Continuation)

$7,382.00 - National Science Foundation, Washington, DC, Structural Influence of Zeolites on Metals and Metal Complexes Within Its Cavities -- A Raman Spectroscopy Study, Department of Chemistry (P. K. Dutta), 1 July 1988 through 30 June 1989. (Project 764936 - Continuation)

$6,260.00 - National Science Foundation, Washington, DC, Exploring Mechanisms of a Species Replacement in a Benthic Stream Community, Department of Zoology (R. A. Stein), 15 October 1988 through 30 September 1989. (Project 767135 - New)

$6,221.00 - National Science Foundation, Washington, DC, Systematics of the Genus Mulinum Pers. (Apiaceae), Department of Botany (T. F. Stuessy), 1 December 1988 through 30 November 1990. (Project 767167 - New)

TOTAL - FEDERAL AWARDS $4,641,510.50

State of Ohio Research Contracts/Grants

$47,855.00 - State of Ohio, Department of Development, Columbus, OH, Commercialization of High Temperature Ceramic Superconductors, Department of Physics (D. L. Cox), 24 October 1988 through 24 April 1989. (Project 767132 - New)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$17,875.00 - State of Ohio, Department of Transportation, Columbus, OH, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1988 through 30 June 1989. (Project 766352 - Continuation)

$8,370.00 - State of Ohio, Ohio Arts Council, Columbus, OH, We Are All the People with AIDS, Department of Theatre (R. T. Wharton III), 1 July 1988 through 30 March 1989. (Project 767121 - New)

TOTAL - STATE OF OHIO AWARDS $ 74,100.00

Industrial Research Contracts/Grants

$525,243.00 - Cray Research, Inc., Mendota Heights, MN, Research and Development Agreement with Cray Research, Inc., Ohio Supercomputer Center (C. F. Bender), 1 November 1988 through 31 October 1989. (Project 766446 - Continuation)


$178,200.00 - Pfizer, Inc., Groton, CT, Phase I Double-Blind, Placebo-Controlled, Safety Toleration and Pharmacokinetic Study of Multiple Doses of Intravenous Fluconazole, Department of Pharmacology (N. Gerber), 9 January 1988 through 8 November 1988. (Project 765696 - Continuation)

$100,000.00 - Pacific Applied Research, Rancho Palos Verdes, CA, Short Wavelength Chemical Laser Fluid Dynamics, Department of Mechanical Engineering (J. W. Rich and Department of Aeronautical and Astronautical Engineering (J. D. Lee), 15 October 1988 through 14 October 1989. (Project 766600 - Continuation)

$88,039.00 - Pfizer, Inc., Groton, CT, Phase I Study to Assess the Potential of Amlodipine to Alter the Pharmacodynamics of Warfarin, Department of Pharmacology (N. Gerber), 11 September 1988 through 10 March 1989. (Project 765696 - Continuation)

$83,000.00 - Mission Research Corporation, Santa Barbara, CA, Advanced Radar Cross Section Measurement Range, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside and J. D. Young), 1 September 1988 through 31 December 1988. (Project 766973 - Continuation)

$62,650.00 - General Electric Company, Cincinnati, OH, Plasma Arc Tunnel Test Program, Department of Aeronautical and Astronautical Engineering (J. D. Lee and G. M. Gregorek), 13 October 1988 through 12 October 1989. (Project 767130 - New)

$30,000.00 - Borg-Warner Chemicals, Inc., Parkersburg, WV, Research and Development of an Advanced Class-8 Truck Cab, Department of Industrial Design (R. F. Butter and H. Goeller), 19 September 1988 through 18 September 1989. (Project 767123 - New)

$28,600.00 - Syntex (USA), Palo Alto, CA, Ketorolac Tromethamine Solution 0.5% in the Maintenance of Intraoperative Pupillary Mydriasis During Cataract Extraction: Double-Masked Parallel
Industrial Research Contracts/Grants (contd)

**Comparison with Vehicle, Department of Ophthalmology (R. H. Keates), 1 October 1988 through 1 June 1989.** (Project 767143 - New)


$12,500.00 and Personnel Services - Oceanroutes, Inc., Sunnyvale, CA, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 November 1988 through 31 October 1989. (Project 766219 - Continuation)

$7,722.00 - Bausch and Lomb, Rochester, NY, An Investigation to Determine if Specular Photomicroscopic Analysis of the Cornea Epithelium is a Viable Test of Contact Lens Performance, College of Optometry (J. T. Barr), 1 September 1988 through 31 December 1988. (Project 767141 - New)

$5,434.00 - The Andersons, Maumee, OH, The Economic Viability of Formulating Agricultural Chemicals Using Liposome Technology, Department of Horticulture - OARDC and Department of Horticulture (S. F. Gorski) and Department of Agronomy and Cooperative Extension State Operations (J. R. Street), 22 April 1988 through 31 October 1988. (Project 766778 - New)

$5,315.00 - CIBA-GEIGY Corporation, Greensboro, NC, Product Palatability Study, Department of Veterinary Clinical Sciences (C. A. Buffington), 1 October 1988 through 31 March 1989. (Project 767138 - New)

$3,000.00 - Agway, Inc., Syracuse, NY, Effects of Protein, Carbohydrate and Fat Source on Bacterial Colonization and Degradation of Fiber In Vitro, Department of Dairy Science - OARDC and Department of Dairy Science (J. L. Firkins), 1 November 1988 through 31 October 1989. (Project 766485 - New)

$2,145.00 - Omega Biologicals, Inc., Woodland Hills, CA, Various Monoclonal Antibodies Consumers, Department of Microbiology (B. S. Zwilling), 1 October 1988 through 31 August 1989. (Project 766485 - New)

**TOTAL - INDUSTRIAL AWARDS** $1,344,787.00

Other Non-Federal Research Contracts/Grants

$114,680.00 - University of Chicago, Argonne, IL, Interfacial Phenomena and Dynamics of Bubbles in Gas-Liquid-Solid Fluidization, Department of Chemical Engineering (L. S. Fan and R. S. Brodkey), 4 November 1988 through 3 November 1989. (Project 767131 - New)

$112,023.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, OH, Agribusiness Training Project in the Dominican Republic, Office of International Programs in Agriculture (D. O. Hansen), 1 October 1988 through 31 January 1989. (Project 767137 - New)

$100,000.00 - Gas Research Institute, Chicago, IL, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 January 1988 through 31 December 1988. (Project 766219 - Continuation)
## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

### Other Non-Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Institution</th>
<th>Project Description</th>
<th>Principal Investigator(s)</th>
<th>Start Date - End Date</th>
<th>Project Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>$80,000.00</td>
<td>American Cancer Society, Atlanta, GA</td>
<td>Function of the Herpes Simplex Virus Deoxyribonuclease</td>
<td>D. S. Parris</td>
<td>1 January 1989 through 31 December 1989</td>
<td>765525</td>
</tr>
<tr>
<td>$70,400.00</td>
<td>Harold Wetterberg Foundation, Roseland, NJ</td>
<td>A Role of Prolactin and Growth Hormone Phosphorylation and Glycosylation in the Metabolism of the Cow</td>
<td>C. L. Brooks</td>
<td>1 June 1988 through 31 May 1991</td>
<td>767163</td>
</tr>
<tr>
<td>$70,200.00</td>
<td>Medical College of Ohio, Toledo, OH</td>
<td>Health Promotion, Disease Prevention for Poor, Underserved, and Minority Older Women</td>
<td>G. L. Trzebiatowski</td>
<td>1 October 1988 through 30 September 1989</td>
<td>767114</td>
</tr>
<tr>
<td>$42,360.00</td>
<td>United Nations, Rome, Italy</td>
<td>Identification of Genomic Alterations in Plant Tissue After Long-Term Storage of Seed</td>
<td>J. C. Kamalay</td>
<td>1 December 1988 through 30 November 1989</td>
<td>766128</td>
</tr>
<tr>
<td>$38,000.00</td>
<td>University of Nebraska, Lincoln, NE</td>
<td>A Research/Extension Awareness Program for Low-Input Agriculture in Ohio</td>
<td>D. J. Ecker and R. Lal</td>
<td>1 June 1988 through 30 September 1989</td>
<td>767127</td>
</tr>
<tr>
<td>$31,050.00</td>
<td>People's Republic of China, Beijing, China</td>
<td>Training in American Enterprise, Trade, and Technology Transfer</td>
<td>R. E. Bailey</td>
<td>1 June 1988 through 31 December 1988</td>
<td>766956</td>
</tr>
<tr>
<td>$29,575.00</td>
<td>Hildegard Doerenkamp-Gerhard Zbinden Foundation 1</td>
<td>Cell Culture Model for Spinal Cord Injury</td>
<td>L. A. Horrocks</td>
<td>1 November 1988 through 30 October 1989</td>
<td>767162</td>
</tr>
<tr>
<td>$26,299.00</td>
<td>Children's Hospital, Columbus, OH</td>
<td>Intestinal Transplantation in Inbred Rats</td>
<td>C. G. Orosz</td>
<td>1 August 1988 through 31 July 1989</td>
<td>767161</td>
</tr>
<tr>
<td>$22,484.00</td>
<td>University Space Research Association, Houston, TX</td>
<td>Aeronautics Pilot Program, Department of Aeronautical and Astronautical Engineering</td>
<td>G. M. Gregorek</td>
<td>15 August 1988 through 15 June 1989</td>
<td>767119</td>
</tr>
<tr>
<td>$20,427.00</td>
<td>North Central Regional Center for Rural Development, Ames, IA</td>
<td>Regional Survey of Operators and Their Farming Partners, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology</td>
<td>M. K. Meyer</td>
<td>1 October 1988 through 31 December 1989</td>
<td>767159</td>
</tr>
<tr>
<td>$16,643.00</td>
<td>Central Ohio Diabetes Association, Columbus, OH</td>
<td>The Effect of Exercise Training on the Metabolic and Microvascular Complications Associated with Non-Insulin Dependent Diabetes Mellitus</td>
<td>K. Osei, K. Ward, R. Hamlin</td>
<td>1 October 1988 through 30 September 1989</td>
<td>767152</td>
</tr>
<tr>
<td>$16,166.00</td>
<td>American Quarter Horse Association, Amarillo, TX</td>
<td>Effect of Exercise on Articular Cartilage Repair in the Horse</td>
<td>L. R. Bramlage</td>
<td>1 October 1988 through 30 September 1989</td>
<td>767151</td>
</tr>
</tbody>
</table>
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, OH, Molecular Cloning of a cDNA for Deoxycytidine Kinase, Department of Biochemistry (D. H. Ives), 1 November 1988 through 31 October 1989. (Project 767157 - New)


$10,800.00 - Children's Hospital Research Foundation, Columbus, OH, Insulin Effects on Growth in Children with Cystic Fibrosis, Department of Internal Medicine (T. M. O'Dorisio), 28 February 1988 through 27 February 1989. (Project 767148 - New)

$9,397.00 - Midwest Research Institute, Golden, CO, Wind Tunnel Testing of an S809 Airfoil Model, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 7 November 1988 through 20 January 1989. (Project 767149 - New)

$6,873.00 - Texas A & M University, College Station, TX, Siliceous Micropaleontology, Southeast Asian Basins, Leg 124 Ocean Drilling Program, Department of Geology and Mineralogy (P. N. Webb), 1 November 1988 through 31 January 1989. (Project 767134 - New)

$5,000.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, TX, Central Office for the Developmental Biologics Activities of the Southwest Oncology Group, Department of Internal Medicine (J. J. Rinehart), 1 January 1988 through 31 December 1988. (Project 767147 - New)

$3,500.00 - Farm Foundation, Oak Brook, IL, International Conference on Sustainable Agriculture, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards), 17 February 1988 through 30 September 1989. (Project 767133- New)

$2,600.00 - Greater Columbus Arts Council, Columbus, OH, Post Productions, Department of Dance (V. J. Blaine), 1 November 1988 through 30 May 1989. (Project 767146 - New)

$510.00 - Upper Arlington City Schools, Upper Arlington, OH, Upper Arlington-Ohio State Middle School Project, School of Health, Physical Education and Recreation (M. O'Sullivan), 30 August 1988 through 8 June 1989. (Project 767087 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $ 870,907.00

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development


707
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$38,742.00 - Ross Laboratories, Columbus, OH, "Feeding Tube Electrode Optimization Study," Engineering Experiment Station (Biomedical Engineering), 1 October 1988 through 30 June 1989. (312485)

$36,913.00 - AITRC, Columbus, OH, "Partitioning Signature (Surrogate) Files for Parallel Processing Proposal," Department of Computer and Information Science, 1 September 1988 through 30 June 1989. (529784)

$16,000.00 - from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529202)

$15,338.00 - from 23 sponsors of 28 development projects in two departments/research areas of the College.

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $160,993.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Janice Carson Beatley Herbarium Fund

The Janice Carson Beatley Herbarium Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Charles E. Beatley, Jr. (B.A. '38, M.A. '47) of Alexandria, Virginia, and Mary Beatley Jordan (B.A. '44) of Sunland, California.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for field research for graduate students in plant systematics and ecology within the College of Biological Sciences.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The John A. Prior Professorship Fund

The John A. Prior Professorship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John A. Prior (B.A. '35, M.D. '38), Columbus, Ohio, former Dean of the College of Medicine, his family and friends.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.
Establishment of Named Funds (contd)

The John A. Prior Professorship Fund (contd)

The intent of this endowment fund is to lead to the establishment of a full professorship to be known as The John A. Prior Professorship in the College of Medicine. All interest earned and additional gifts shall be added to the principal until such time as sufficient funding is available to fully establish the Professorship. The Professorship will be used to support teaching and research in pulmonary diseases through the Department of Internal Medicine, Division of Pulmonary Diseases, with the primary emphasis on research activities.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Suzanne Kolarik Underwood Scholarship Fund

The Suzanne Kolarik Underwood Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from William Michael Kolarik (B.S.M.E. '79), Sparks, Nevada; William James and Helen Marie Kolarik, Palm Harbor, Florida; Max Underwood, Tempe, Arizona; and the family and friends of the late Suzanne Kolarik Underwood (B.S.Arch. '77).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an annual scholarship award to a student entering his/her fourth year architectural design studio, who has demonstrated superior ability and talent in his/her third year architectural design studio. Should the endowment principal generate funds more than the tuition needed for one academic year, the excess shall be used to award a scholarship to a student entering the third year architectural design studio who has completed and demonstrated superior ability and talent in his/her second year design studio work. Should the endowment earnings exceed funds necessary to support both scholarships for three full quarters of tuition, earnings over that amount shall be used for the School of Architecture's general scholarship fund. The scholarship award(s) shall be based not on financial need, but rather on demonstrated academic excellence in architectural design. The selection will be made jointly by the chairperson and the appropriate architectural design professors of the Department of Architecture in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the director of the School of Architecture, the chairperson of the Department of Architecture, or the appropriate program administrative officer in order to carry out the desire of the donors.
The GAR Foundation Scholarship Fund

The GAR Foundation Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The GAR Foundation of Akron, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance to one or more students with demonstrated financial need who are enrolled in the College of Law, with first preference being given to law students who are from Summit County.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with The GAR Foundation and with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for the law education in order to carry out the desire of the donor.

The R. M. Harpham, Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority Scholarship Fund

The R. M. Harpham, Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the firms R. M. Harpham, Moody/Nolan, Ltd., and Spencer & Spencer Inc., of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship awards for Black American students entering their first year of study in the School of Architecture who plan to major in architecture at The Ohio State University. The recipient will be chosen based on financial need and the likelihood that the candidate will complete course work in architecture and enter the profession. The scholarship's intent is to encourage Black students to enter architecture. Selection will be made by the Department of Architecture Scholarship Committee in coordination with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The All American Youth Horse Show Endowment Fund

The All American Youth Horse Show Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the All American Youth Horse Show Foundation, Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an academic scholarship to one or more twelfth-grade students who are members of the 4-H horse program, planning to enroll each autumn quarter at The Ohio State University or other accredited post-secondary institution in any course of study. Applicants for this award shall be judged on their level of 4-H involvement (40%), experiences in other youth organizations (20%), future plans and potential for success (20%) and need for the scholarship (20%). Awarding of this scholarship shall be made in accordance with the rules and procedures set forth by the State 4-H Office and in consultation with the All American Youth Horse Show Foundation and The Ohio State University Committee on Student Financial Aid. Any income not used in a given year will be added to the principal at the end of that fiscal year.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Martha Miller Lotman Memorial Scholarship Fund

The Martha Miller Lotman Memorial Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from family members, in honor of Martha Miller Lotman, formerly of Marion, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Fifteen percent (15%) of the annual income distributed shall be added to the fund's principal. The remaining eighty-five (85%) shall be used for one or more scholarships to deserving students who are qualified to enroll at The Ohio State University, Marion Campus. Preference for scholarship awards shall be given to those students majoring in journalism, communication or English. The selection of the recipient(s) will be made by a committee consisting of a designated member of the family, and the University Committee on Financial Aid at the Marion Campus. The University shall make all reasonable attempts to contact a family member to have a representative present during the selection process. The successor to the above committee will be The Ohio State University Committee on Student Financial Aid in consultation with the Dean of The Ohio State University at Marion. Unused income in any given year shall be added to the principal of the fund.
Establishment of Named Funds (contd)

The Martha Miller Lotman Memorial Scholarship Fund

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official of the University then responsible for student scholarship awards to students of the Marion, Ohio, area in order to carry out the desire of the donors.

The Sigmund & Rita Munster and Family Athletic Endowment Fund (contd)

The Sigmund & Rita Munster and Family Athletic Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Sigmund Munster family of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide funds for the grant-in-aid (scholarship) costs of a student-athlete who is a member of the football squad. Selection of the recipients is to be made by the Director of Athletics in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to the recommendations from the appropriate administrative official of the University then responsible for the intercollegiate athletic program in order to carry out the desire of the donors.

Change in Description of Named Fund

The Optometry Class of 1953 Endowed Scholarship Fund

The Optometry Class of 1953 Endowed Scholarship Fund was established November 30, 1979, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from members of the College of Optometry Class of 1953. The description was changed February 3, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students in the College of Optometry and/or graduate students in physiological optics, with first preference going to a junior-year student who has shown extreme proficiency in the clinical application of optometry. Selection of the recipient(s) is to be made by the University Committee on Student Financial Aid with recommendations from the approved advisors of the Optometry Class of 1953, so long as they survive, with assistance from the Director of the Clinic. Upon the demise of all members of the
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

The Optometry Class of 1953 Endowed Scholarship Fund (contd)

Optometry Class of 1953, the Dean of the College of Optometry shall assist with the selection process in conjunction with the Director of the Clinic.

Is is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - December 1988

Federal Research Contracts/Grants

$1,486,777.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, Medicine Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1988 through 30 November 1989. (Project 761196 - Continuation)

$666,237.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Otitis Media with Effusion: Human Studies, Department of Otolaryngology (D. J. Lim), 1 December 1988 through 30 November 1989. (Project 760043 - Continuation)

$355,468.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Program (P. E. Kolattukudy), 1 January 1989 through 31 December 1989. (Project 766224 - Continuation)

$344,993.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1989 through 31 December 1989. (Project 761094 - Continuation)


$218,440.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, NLS Resurvey: Older Male Survivors and Decedents' Widows, Center for Human Resource Research (H. S. Parnes), 1 December 1988 through 30 November 1989. (Project 767203 - New)

$194,444.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Function and Assembly of Carbon Dioxide Assimilatory Enzymes, Department of Microbiology (F. R. Tabita), 1 January 1989 through 31 December 1989. (Project 767196 - New)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$181,717.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1989 through 31 December 1989. (Project 760578 - Continuation)

$180,469.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Novel Antineoplastic Agents from Higher Plants, College of Pharmacy (J. M. Cassady and R. W. Doskotch) and Department of Pathology (R. E. Stephens), 1 December 1988 through 30 November 1989. (Project 767168 - New)

$176,446.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genetic and Molecular Studies of RNA Splicing, Department of Molecular Genetics (P. S. Perlman), 1 December 1988 through 30 November 1989. (Project 763452 - Continuation)

$160,926.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Phase I and Clinical Pharmacokinetic Studies of Anticancer Agents, Comprehensive Cancer Center and Department of Internal Medicine (M. R. Grever) and College of Pharmacy (L. Malpeis), 1 December 1988 through 31 May 1989. (Project 764860 - Continuation)

$150,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, The Physics of Submicron Systems, Department of Physics (J. W. Wilkins), 1 October 1988 through 30 September 1989. (Project 767184 - New)

$150,000.00 - National Science Foundation, Washington, D.C., Catalytic Site of Calmodulin-Dependent Protein Kinases, Department of Chemistry (M. M. King), 1 February 1989 through 31 January 1991. (Project 767220 - New)

$147,983.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Research Triangle Park, North Carolina, DNA Damage Following Exposure to Genotoxin, Department of Radiology (A. A. Wani, S. M. D'Ambrosio and R. M. Snapka), 1 December 1988 through 30 November 1989. (Project 762787 - Continuation)

$139,250.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stereochemistry of Enzyme Reactions to Phosphorus, Department of Chemistry (M. D. Tsai), 1 December 1988 through 30 November 1989. (Project 762722 - Continuation)

$127,316.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Linking Maternal Employment and Child Care Arrangements to Child Development, Department of Sociology (T. L. Parcel), 12 December 1988 through 30 November 1989. (Project 767226 - New)


$100,000.00 - Department of the Air Force, Air Force Systems Command, Wright- Patterson Air Force Base, Ohio, Scatterer Modeling/Calibration Study, ElectroScience Laboratory, Department of
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Electrical Engineering (R. J. Marhefka), 1 October 1988 through 30 September 1989. (Project 766957 - Continuation)

$98,551.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, A Fundamental Investigation into the Joining of Advanced Light Materials, Department of Welding Engineering (W. A. Baeslack, III), 1 April 1989 through 31 March 1990. (Project 766676 - Continuation)

$88,774.00 - National Science Foundation, Washington, D.C., Development of a Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM) Laboratory Based on Workstations and Computer-Aided Modeling Machines, Department of Mechanical Engineering (G. L. Kinzel), 15 November 1988 through 31 October 1990. (Project 767214 - New)

$84,778.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Bone-Cement Interface Biomechanics, Department of Surgery (A. S. Litsky), 1 December 1988 through 30 November 1989. (Project 767202 - New)

$83,202.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Free Flight Composite Head Development, Department of Mechanical Engineering (J. A. Collins), 1 January 1989 through 31 December 1989. (Project 765776 - Continuation)

$80,784.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Measurement of Forest Condition and Response Along an Atmospheric Deposition Gradient, Laboratory for Environmental Science - OARDC (J. R. McClennahan), 1 October 1988 through 31 December 1989. (Project 767211 - New)

$78,221.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Recombinant Pharmaceutical Protein Production in Eggs, Department of Dairy Science - OARDC (C. P. Hodgson), 1 January 1989 through 31 December 1989. (Project 767179 - New)

$77,848.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Function in a Hibernator: Adaptive Changes, Department of Physiology (H. V. Carey), 1 January 1989 through 31 December 1989. (Project 766634 - Continuation)

$75,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, The Effects of Magnetic Nozzle Configurations on Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 1 January 1989 through 31 December 1989. (Project 766488 - Continuation)

$60,961.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oxidate PMN/Periodontium Interaction In Oral Disease, Diagnostic Services (S. R. Mallery and C. M. Allen) and Department of Physiological Chemistry (A. J. Merola), 1 December 1988 through 30 November 1989. (Project 765142 - Continuation)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$60,100.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (C. Jayaprakash), 1 January 1989 through 31 December 1989. (Project 764850 - Continuation)

$58,216.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypothalamic Neuronal Sensitivity in Pregnant WKY/SHR Rats, Department of Physiology (J. A. Boulant and D. Christenson), 1 December 1988 through 30 November 1989. (Project 765130 - Continuation)

$50,000.00 - National Science Foundation, Washington, D.C., Theoretical Studies of Equilibrium and Non-Equilibrium Multi-Layer Films, Department of Physics (W. F. Saam and C. A. Ebner), 1 May 1989 through 30 April 1990. (Project 766478 - Continuation)

$48,658.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Supplemental Funds to Initiate, Improve, or Expand a Program of Cooperative Education, Arts and Sciences Administration, Business Administration and Engineering Administration (R. Arkin), Agricultural Technical Institute-Administrative Support (D. D. Garrison), School of Health, Physical Education and Recreation (W. A. Sutton), and Education Administration (J. J. Buffer), 1 October 1988 through 30 September 1989. (Project 767117 - Continuation)

$45,939.00 - National Aeronautics and Space Administration, Washington, D.C., Cellular Polarity and Interactions in Plant Graviperception, Department of Botany (F. D. Sack), 15 December 1988 through 14 December 1989. (Project 766605 - Continuation)

$45,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Target Signature Modeling and Bistatic Scattering Measurement Studies, ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka), 1 December 1988 through 31 August 1989. (Project 767063 - Continuation)


$24,932.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Case Management of Adolescents with Chronic Diseases, Center on Education and Training for Employment (R. D. Ryan), 1 October 1988 through 30 June 1989. (Project 767195 - New)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$20,115.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., A Multifaceted Mentoring Program for Minority Students on a Regional Campus, Mansfield Campus (J. O. Riedl), 1 September 1988 through 31 August 1989. (Project 766434 - Continuation)

$20,000.00 - National Science Foundation, Washington, D.C., Interdisciplinary Conference on Axiomatic Systems, Department of Mathematics (H. Friedman), 1 November 1988 through 31 October 1989. (Project 767183 - New)

$20,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Controller Design Approaches and Evaluations, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 October 1988 through 30 November 1988. (Project 766464 - Continuation)

$19,871.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Decentralized Control and Identification Experiments for the NASA Langley Research Center SCOLE (Spacecraft Control Laboratory Experiment Program), Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 January 1989 through 31 August 1989. (Project 765807 - Continuation)

$15,000.00 - National Science Foundation, Washington, D.C., Conference on Orthogonal Polynomials and Their Applications, Department of Mathematics (P. Nevai), 1 December 1988 through 30 November 1989. (Project 767193 - New)

$5,855.00 - National Science Foundation, Washington, D.C., Systematics of Arali (Araliaceae), Department of Botany (T. F. Stuessy), 15 November 1988 through 30 November 1990. (Project 767178 - New)

TOTAL - FEDERAL AWARDS $6,439,037.00

State of Ohio Research Contracts/Grants

$229,899.00 - State of Ohio, Department of Development, Columbus, Ohio, Ohio State University Institute for Japanese Studies, Department of Political Science (B. M. Richardson), 1 July 1988 through 30 June 1990. (Project 767209 - Continuation)

$100,640.00 - State of Ohio, Department of Education, Columbus, Ohio, Reading Recovery Project, Department of Educational Theory and Practice (G. S. Pinnell), 1 July 1988 through 30 September 1989. (Project 767218 - Continuation)

$35,880.00 - State of Ohio, Board of Regents, Columbus, Ohio, Enhancing Mathematics Through Technology, Department of Mathematics (F. Demana), 15 July 1988 through 31 December 1989. (Project 767194 - New)

$28,328.00 - State of Ohio, Department of Development, Columbus, Ohio, Foot Force Monitoring Device, Department of Surgery (A. S. Litsky), 1 November 1988 through 31 October 1989. (Project 767190 - New)

$26,900.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Academic Affairs Administration (R. E. Bailey), 1 July 1986 through 30 June 1987. (Project 765536 - Continuation)

717
February 3, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS** (contd)

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION** (contd)

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Research Contracts/Grants (contd)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$4,411.76 - State of Ohio, Department of Education, Columbus, Ohio, TRIO Subsidy Program, Office of Minority Affairs (L. G. Morrow), 1 July 1988 through 30 June 1989. (Project 766723 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$500.00 - State of Ohio, Department of Development, Columbus, Ohio, Youth Correction and Population Management in Ohio: A Policy Development Project, School of Public Policy and Management (C. R. Hutt), 1 June 1988 through 31 December 1988. (Project 766240 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$133.34 - State of Ohio, Department of Development, Columbus, Ohio, Retention and Expansion of Existing Businesses, Department of Agricultural Economics and Rural Sociology - OARDC and Cooperative Extension State Operations (G. W. Morse), 1 June 1987 through 30 September 1988. (Project 765667 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL - STATE OF OHIO AWARDS</strong></td>
<td>$426,692.10</td>
<td></td>
</tr>
<tr>
<td>Industrial Research Contracts/Grants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$2,224,757.00 - Cray Research, Inc., Mendota Heights, Minnesota, Research and Development Agreement with Cray Research, Inc., Ohio Supercomputer Center (C. F. Bender), 1 November 1989 through 31 October 1992. (Project 766446 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$355,463.00 - Pfizer, Inc., Groton, Connecticut, A Multiple Dose, Double- Blind, Placebo-Controlled Study of the Safety, Toleration and Pharmacokinetics of CP-72,467 in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 6 September 1988 through 5 March 1989. (Project 765696 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$90,000.00 - Roerig/Pfizer, New York, New York, A Prospective, Open, Non-Comparative Study of Cefoperazone-Subactam in the Treatment of Patients with Serious Infections, Department of Internal Medicine (R. J. Fass), 1 October 1988 through 30 September 1989. (Project 767181 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$80,589.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Sertraline to Alter Steady State Serum Lithium Levels and Renal Clearance of Lithium in Healthy Volunteers, Department of Pharmacology (N. Gerber), 6 October 1988 through 5 April 1989. (Project 765696 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$76,881.00 - Pfizer, Inc., Groton, Connecticut, Evaluation of the Safety, Clinical Activity, Toleration and Pharmacokinetics of CP-80,794 -- A Single Escalating Dose Study in Normotensive Healthy Volunteers, Department of Pharmacology (N. Gerber), 18 October 1988 through 17 April 1989. (Project 765696 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$49,900.00 - Teledyne CAE, Toledo, Ohio, Proflan Characterization Study, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 1 January 1989 through 31 December 1989. (Project 766312 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$39,150.00 - Pfizer, Inc., Groton, Connecticut, Azithromycin in the Treatment of Streptococcal Pharyngitis in Outpatients -- A Multicenter, Third Party, Blinded Trial Employing Penicillin V as a Comparative Agent, University Health Service (D. I. Charles), 1 October 1988 through 30 September 1989. (Project 767199 - New)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$38,000.00 - PepsiCo, Inc., Valhalla, New York, Isolation and Characterization of the Protein Fraction of Gum Arabic, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (M. E. Mangino), 1 January 1989 through 31 December 1989. (Project 766532 - Continuation)

$37,852.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study of the Effect of Concomitant Cimetidine Administration on the Absorption of Azithromycin, Department of Pharmacology (N. Gerber), 26 October 1988 through 25 April 1989. (Project 765696 - Continuation)


$30,309.71 - Merck and Company, Iselin, New Jersey, Determination of the Efficacy of Norfloxacin for the Treatment of Bacterial Urinary Tract Infections in Dogs, Department of Veterinary Clinical Sciences (J. J. Kowalski, D. J. Chew and K. W. Kwochka), 1 November 1988 through 31 January 1989. (Project 767205 - New)


$14,684.00 - Danninger Medical Technologies, Inc., Columbus, Ohio, Foot Force Monitoring Device, Department of Surgery (A. S. Litsky), 1 November 1988 through 31 October 1989. (Project 767227 - New)

$10,000.00 - Stuart Pharmaceuticals, Wilmington, Delaware, A Multicenter Comparison of Zoladex Depot and Surgical Castration in Metastatic Prostate Carcinoma, Department of Surgery (J. R. Drago), 1 September 1985 through 30 June 1989. (Project 765067 - Continuation)

$7,975.00 - Triton Biosciences, Inc., Alameda, California, Open-Label Phase II Study to Evaluate the Safety and Efficacy of High Dose IFN-Bser in Patients with Renal Cell Carcinoma, Department of Internal Medicine (J. J. Rinehart), 31 March 1986 through 31 March 1989. (Project 765338 - Continuation)

$7,815.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Non-Native Speakers of English in the Work Setting Through Group Work and Individualized Tutorial, English as a Second Language Program (R. N. Kantor), 1 January 1989 through 31 May 1989. (Project 767207 - Continuation)

$3,807.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Non-Native Speakers of English in the Work Setting Through Individualized Tutorial, English as a Second Language Program (R. N. Kantor), 1 October 1988 through 30 June 1989. (Project 767206 - Continuation)

$3,504.00 - Pet-Ag, Inc., Elgin, Illinois, Evaluation of Liquid Food Supplements in Cat Diets, Department of Veterinary Clinical Sciences (C. A. Buffington), 21 November 1988 through 30 May 1989. (Project 767180 - New)
Industrial Research Contracts/Grants (contd)


TOTAL - INDUSTRIAL AWARDS $ 3,176,259.98

Other Non-Federal Research Contracts/Grants

$434,183.00 - Indonesian Government, Jakarta, Indonesia, Refresher C Programs for Faculties of the Institutes for Teacher Training and Education and for the Faculties of Teacher Training and Education of Indonesia, Education Administration (J. J. Buffer), 1 October 1988 through 31 July 1989. (Project 767165 - Continuation)


$90,500.00 - American Cancer Society, Atlanta, Georgia, Genetic Characterization of Novel Elements in Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 January 1989 through 31 December 1991. (Project 767189 - New)

$69,000.00 - American Cancer Society, New York, New York, Characterization of Mouse I Region Recombination Hot Spots, Department of Microbiology and Immunology (W. P. Lafuse), 1 January 1989 through 31 December 1989. (Project 765788 - Continuation)

$68,738.00 - University of Texas, Galveston, Texas, Studies of Mechanism and Therapy of Human Immunodeficiency Virus Cytotoxicity, Department of Veterinary Pathobiology (J. L. Rojko), 1 September 1988 through 31 August 1989. (Project 766650 - Continuation)

$58,445.00 - The University of Iowa, Iowa City, Iowa, Cystic Fibrosis Research Center: Membrane Biology of Cystic Fibrosis, Department of Zoology (D. L. Stetson), 30 September 1988 through 29 September 1989. (Project 767188 - New)

$41,602.00 - Dade County Public Schools, Miami, Florida, Dropout Prevention for At-Risk, Limited English Proficient Students, Center on Education and Training for Employment (R. D. Ryan), 1 October 1988 through 30 September 1989. (Project 767174 - New)

$30,000.00 - Pew Memorial Trust, Philadelphia, Pennsylvania, Pew National Veterinary Education Program -- Phase III, Veterinary Medicine Administration (R. A. Wright), 14 September 1988 through 31 October 1989. (Project 767173 - New)

$20,000.00 - Canadian Government, Quebec, Canada, Canadian Radio-Television and Telecommunications Commission Contract, National Regulatory Research Institute (D. N. Jones), 15 November 1988 through 31 March 1989. (Project 767197 - New)

$15,000.00 - Deafness Research Foundation, New York, New York, Role of Fimbriae in the Adherence of Nontypable Hemophilus influenzae to Nasopharyngeal and Middle Ear Mucosa, Department of Otolaryngology (L. A. Bakaletz), 1 January 1989 through 31 December 1989. (Project 765827 - Continuation)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$15,000.00 - Deafness Research Foundation, New York, New York, Antibody Levels Directed Against the Outer Membrane Proteins of Hemophilus influenzae from Patients with Chronic Otitis Media with Effusion, Department of Otolaryngology (T. DeMaria), 1 January 1989 through 31 December 1989. (Project 765840 - Continuation)

$14,768.00 - Cornell University, Ithaca, New York, Design, Prototype, and Debug Mixer-Shaper Boards for CLEO, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1988 through 30 June 1989. (Project 766574 - Continuation)

$12,000.00 - Research Corporation, Tucson, Arizona, Metal Ion Catalysis in Phosphoryl Transfer from Polyphosphates, Department of Chemistry (D. L. Leussing), 1 January 1989 through 31 December 1990. (Project 767221 - New)

$9,968.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, English as a Second Language Program (T. T. Diemer), 1 January 1989 through 31 March 1989. (Project 764972 - Continuation)

$7,874.00 - University of Washington, Seattle, Washington, Gonadotropin Patterns and Ovarian Function, Department of Obstetrics and Gynecology (C. I. Friedman and M. H. Kim), 1 September 1988 through 31 August 1989. (Project 767217 - New)

$7,150.00 - Cornell University, Ithaca, New York, Design, Prototype, and Debug Mixer-Shaper Boards for CLEO, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1988 through 31 December 1988. (Project 766574 - Continuation)

$5,000.00 - Sigma Kappa Sorority Foundation, North Little Rock, Arkansas, An Improved Animal Model for Alzheimer's Disease: The Effect of Long-Term Nucleus Basalis Lesions on Dendritic Morphology in Golgi-impregnated Neurons of Young and Old Rats, Department of Pathology (R. F. Mervis), 15 September 1988 through 14 September 1989. (Project 767198 - New)

$5,000.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologics Activities of the Southwest Oncology Group, Department of Internal Medicine (J. J. Rinehart), 1 January 1988 through 31 December 1988. (Project 767147 - Continuation)

$4,000.00 - University of Nebraska, Lincoln, Nebraska, Sustainable Agriculture Educational Displays, Department of Entomology (C. A. Edwards), 1 June 1988 through 30 September 1989. (Project 767191 - New)

$4,000.00 - National Geographic Society, Washington, D.C., Planning Grant for a Geographic Alliance Network, Department of Geography (W. R. Smith) and Mershon Center for Education (R. C. Remy), 1 October 1988 through 30 November 1989 (Project 767215 - New)

$3,000.00 - University of Alabama at Birmingham, Birmingham, Alabama, Intergroup Melanoma Study, Department of Surgery (W. B. Farrar), 1 July 1988 through 30 June 1989. (Project 767201 - New)
February 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)


TOTAL - OTHER NON-FEDERAL AWARDS $1,060,546.00

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

$36,918.00 - from 48 sponsors of 60 development projects in two departments/research areas of the College.

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The E. F. Wildermuth Foundation Professorship Fund in Optometry

The E. F. Wildermuth Foundation Professorship Fund in Optometry was established February 3, 1989, by the Board of Trustees of The Ohio State University with an initial gift of $50,000 and a five-year pledge and agreement with The Ohio State University Development Fund from the E. F. Wildermuth Foundation of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income for the first five years (pledge period) shall be used at the discretion of the Dean of the College of Optometry, with the understanding that priority consideration be given to scholarship support for one or more students enrolled in the College of Optometry at The Ohio State University. Accordingly, selection of scholarship recipient(s) shall be made by the University Committee on Student Financial Aid.

After the University receives the full amount of the cash pledge by the E. F. Wildermuth Foundation ($250,000), the University will transfer up to $250,000 funds from the existing E. F. and Kathryn M. Wildermuth Memorial Endowment - Optometry Fund, to bring the E. F. Wildermuth Foundation Professorship Fund in Optometry up to the minimum of $500,000. Once the endowment reaches $500,000, a minimum of ten percent of the annual earnings from the total accumulated principal shall be returned to principal each year in perpetuity. The remaining ninety percent (90%) of annual income shall be used to provide compensation and/or program support for truly distinguished scholars in Optometry. Appointment of the Professorship will be recommended by the Dean of the College of Optometry after consultation with the appropriate academic selection committees. Final approval will be made by the Provost, the President, and the Board of Trustees.

It is the desire of the donor that this fund should benefit the University in perpetuity. The trustees of the E. F. Wildermuth Foundation shall retain input on the uses and direction of the professorship, through access and relations with the Dean of the College of Optometry. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Edward M. Alkire Scholarship Fund

The Edward M. Alkire Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Edward M. Alkire (B.A. Arts & Sciences '29, M.A. '30) of Laguna Hills, California.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more academic scholarships for junior, senior, and/or graduate students enrolled full-time in the College of Social and Behavioral Sciences with a major course of study in mental health. The selection of the recipient(s) of the award(s) will be made by a committee from the Department of Psychology in coordination with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Derek H. Busch Memorial Award Fund

The Derek H. Busch Memorial Award Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. and Mrs. Daryle Busch of Columbus, Ohio, in memory of Derek H. Busch.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund a yearly scholarship or award for graduate or undergraduate students enrolled in the School of Music with a major in piano. Award or scholarship recipients shall be selected by the Dean of the College of The Arts, or his/her designee, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, School of Music director, or program administrative officer in order to carry out the desire of the donors.

The W. Chaney and Jane S. Vance Family 4-H Fund

The W. Chaney and Jane S. Vance Family 4-H Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from W. Chaney and Jane S. Vance (B.S.H.E. '41), of Pickaway County, Ohio, and by their children: Wm. Gerald (B.S.Agr. '66) of Columbus, Ohio; Lawrence G. (B.S.Agr. '66) of Dublin, OH; Barbara J. (M.S., Home Economics, '88) of Mount Sterling, Ohio; and Linda S. (B.S.Agr. '71) of New York, New York.
Establishment of Named Funds (contd)

The W. Chaney and Jane S. Vance Family 4-H Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to grant one or more scholarships to current or former 4-H members from the State of Ohio who are entering with intention to enroll or are currently enrolled in the College of Agriculture or the College of Home Economics at any of the campuses of The Ohio State University. Scholarship awards shall be based on merit (scholarship, leadership, and community service). Student recipients shall also exemplify the ideals of 4-H. Award recipients shall be selected by the 4-H Awards Selection Committee in consultation with the scholarship coordinators of the College of Agriculture and the College of Home Economics and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Change in Name and Description of Named Fund

The Steve R. and Sarah E. O'Donnell Professorship in Philosophy

The Department of Philosophy Faculty Support Fund was established June 5, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Steve R. O'Donnell (B.E.E. '62, M.S. '63) and Sarah E. O'Donnell of Westerville, Ohio. The name and description were changed February 3, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide compensation and/or program support for truly distinguished scholars in philosophy. Appointment of the O'Donnell Professorship will be recommended by the Dean of the College of Humanities after consultation with the appropriate academic selection committees. Final approval will be made by the Provost, the President, and the Board of Trustees.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
February 3, 1989 meeting, Board of Trustees

EASEMENT
BUCKEYE RURAL ELECTRIC CO-OPERATIVE, INC.  
Resolution No. 89-79

Synopsis: Authorization to grant an easement to the Buckeye Rural Electric Co-operative, Inc., for relocation of electric service pole lines is requested.

WHEREAS The Buckeye Rural Electric Co-operative, Inc. has requested a 15-year easement consisting of a strip of land five feet in width and approximately 1,639 feet in length for the installation of electric pole lines along State Route 93 in Jackson County, Ohio; and

WHEREAS the University has granted a right of entry to Buckeye Rural Electric Co-operative, Inc. for the work that has been performed; and

WHEREAS the electric service will serve University property and private property; and

WHEREAS the Buckeye Rural Electric Co-operative, Inc. agrees to compensate the University with a lump sum payment of $500.00 in consideration of the granting of this easement; and

WHEREAS the appropriate University offices have recommended that this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXVI for map of Buckeye Rural Electric Co-Operative, Inc. Easement at the Jackson County Branch of the Ohio Agricultural Research and Development Center, page 799.)

--0--

Mr. Scott

Mr. Chairman, just one brief announcement -- it looks like we have a number of schedule conflicts for March -- people being out of town and not being available. There is a real likelihood that we will not schedule the regular Board meeting for March. As soon as we know, we will try to let you know. In the event that we don't have a March Board meeting then the next regular Board meeting will be April 7, 1989.

--0--

Thereupon the Board adjourned.

Attest:

Madison H. Scott  Leonard J. Immke
Secretary  Chairman

725
Page 726 is blank
APPENDIX XV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
January 20, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 671)
THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
January 20, 1989

Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>06-30-88</th>
<th>Percent of Equity and Fixed Income</th>
<th>01-20-89</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$38,004,379</td>
<td>18.55%</td>
<td>$38,139,473</td>
<td>17.09%</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>10,454,591</td>
<td>5.10</td>
<td>10,543,708</td>
<td>4.72</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,428,707</td>
<td>16.81</td>
<td>35,540,227</td>
<td>15.93</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>17,462,592</td>
<td>8.53</td>
<td>18,201,686</td>
<td>8.16</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>1,282,386</td>
<td>6.25</td>
<td>49,233,803</td>
<td>22.07</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$133,632,655</td>
<td>65.24%</td>
<td>$151,658,897</td>
<td>67.97%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cambridge</td>
<td>$921,925</td>
<td>0.45%</td>
<td>$921,813</td>
<td>0.41%</td>
</tr>
<tr>
<td>Centerre Trust</td>
<td>21,547,467</td>
<td>10.52</td>
<td>21,870,479</td>
<td>9.80</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>9,983,561</td>
<td>4.87</td>
<td>9,817,127</td>
<td>4.40</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>22,300,069</td>
<td>10.89</td>
<td>22,545,505</td>
<td>10.11</td>
</tr>
<tr>
<td>OSU - QMMA</td>
<td>9,954,372</td>
<td>4.86</td>
<td>9,811,444</td>
<td>4.40</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,502,840</td>
<td>3.17</td>
<td>6,499,133</td>
<td>2.91</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$71,210,234</td>
<td>34.76%</td>
<td>$71,465,499</td>
<td>32.03%</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td>$204,842,889</td>
<td>100.00%</td>
<td>$223,124,396</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$23,089,186</td>
<td>8.36</td>
<td>$26,574,145 (1)</td>
<td>1.18</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$227,932,073</td>
<td>1.00%</td>
<td>$249,699,541</td>
<td>1.18</td>
</tr>
</tbody>
</table>

1) Real Estate reported at most recent appraised value.
### Estimated Weighted Average Yield of Endowment Fund

#### Equity:

<table>
<thead>
<tr>
<th>Security</th>
<th>Yield</th>
<th>% Change in Market Value January '88 to January '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.53%</td>
<td>8.64%</td>
<td>12.17%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.93%</td>
<td>14.91%</td>
<td>16.84%</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>3.79%</td>
<td>10.74%</td>
<td>14.53%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>3.20%</td>
<td>18.64%</td>
<td>21.84%</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>4.16%</td>
<td>17.45%</td>
<td>21.61%</td>
</tr>
<tr>
<td>Standard &amp; Poor’s Index</td>
<td>3.94%</td>
<td>13.72%</td>
<td>17.66%</td>
</tr>
</tbody>
</table>

#### Real Estate:

- 4.37% -0- (11) 4.37%

#### Fixed Income:

- Bonds (Cambridge) 7.80% (5) (1.03)% 6.77%
- Bonds (Centerre Trust) 8.32% (6) (1.52) 6.80
- Bonds (Diff & Phelps) 8.71% (7) (2.16) 6.55
- Bonds (STW Fixed Income) 9.16% (8) (0.81) 8.35
- Bonds (OSU - GNMA) 9.84% (9) (1.84) 8.00
- Bonds (OSU Managed) 7.42% (10) (1.64) 5.78
- Merrill Lynch Corporate/ Government Master 9.12% (1.93) 7.19

---

(1) 19.8% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.1%.
(2) 0.6% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.2%.
(3) 36.7% of Siebel portfolio is made up of cash and cash equivalents which earn 9.1%.
(4) 48.5% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.1%.
(5) 0.1% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.2%.
(6) 1.3% of Centerre Trust portfolio is made up of cash and cash equivalents which earn 8.2%.
(7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.2%.
(8) 1.0% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.2%.
(9) 3.3% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 9.0%.
(10) 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.1%.
(11) Not able to compare 12 months.
(12) Endowment Fund Income through January 31, 1989, totaled approximately $8,135,000.
(13) Income from University Cash Investments through January 31, 1989, totaled approximately $8,224,000.

---

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation 01-20-89</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-88)</td>
<td>$247,932,075</td>
<td>Equities $106,627,811</td>
<td>41.06%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>7,704,621</td>
<td>Fixed Income 65,016,207</td>
<td>25.03</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(99,910)</td>
<td>Real Estate 36,458,000</td>
<td>14.04</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>4,161,758</td>
<td>Cash 51,956,523</td>
<td>19.87</td>
</tr>
</tbody>
</table>

### Current Market Value

- $259,698,541 Total Portfolio $259,698,541 100.00%

---

729
## Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Real Estate

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>
### Common & Preferred Stock

#### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,300</td>
<td>Wetterau, Inc.</td>
<td>Chicago</td>
<td>23.6944</td>
<td>$149,275.00</td>
<td>$6,552.00</td>
</tr>
<tr>
<td>7,500</td>
<td>Limited, Inc.</td>
<td>Nicholas-Applegate</td>
<td>27.1988</td>
<td>204,441.20</td>
<td>1,800.00</td>
</tr>
<tr>
<td>12,000</td>
<td>Neiman Marcus Group, Inc.</td>
<td>&quot;</td>
<td>16.7512</td>
<td>201,734.50</td>
<td>2,400.00</td>
</tr>
<tr>
<td>282</td>
<td>Banc One Corp.*</td>
<td>OSU</td>
<td>23.1543</td>
<td>6,529.50</td>
<td>259.44</td>
</tr>
<tr>
<td>20</td>
<td>Figgie International, Inc. Cl. B*</td>
<td>&quot;</td>
<td>92.0000</td>
<td>1,840.00</td>
<td>17.60</td>
</tr>
<tr>
<td>50</td>
<td>General Electric Co.*</td>
<td>&quot;</td>
<td>45.3750</td>
<td>2,268.75</td>
<td>82.00</td>
</tr>
<tr>
<td>10</td>
<td>General Motors Corp., Cl. H*</td>
<td>&quot;</td>
<td>25.6250</td>
<td>256.25</td>
<td>4.40</td>
</tr>
<tr>
<td>250</td>
<td>Huntington Bancshares*</td>
<td>&quot;</td>
<td>17.7500</td>
<td>4,437.50</td>
<td>210.00</td>
</tr>
<tr>
<td>783</td>
<td>Putnam High Income Government Trust Fund*</td>
<td>&quot;</td>
<td>10.0900</td>
<td>7,900.47</td>
<td>379.75</td>
</tr>
<tr>
<td>600</td>
<td>Standard Products Co.*</td>
<td>&quot;</td>
<td>29.2500</td>
<td>17,550.00</td>
<td>480.00</td>
</tr>
<tr>
<td>200</td>
<td>Wendy's International, Inc.*</td>
<td>&quot;</td>
<td>5.6250</td>
<td>1,125.00</td>
<td>48.00</td>
</tr>
<tr>
<td>598</td>
<td>Worthington Industries, Inc.*</td>
<td>&quot;</td>
<td>22.0201</td>
<td>13,168.00</td>
<td>263.12</td>
</tr>
<tr>
<td>2,500</td>
<td>Apple Computer, Inc.</td>
<td>Siebel</td>
<td>40.8750</td>
<td>102,187.50</td>
<td>600.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Becton Dickinson &amp; Co.*</td>
<td>&quot;</td>
<td>53.8910</td>
<td>539,610.00</td>
<td>7,400.00</td>
</tr>
<tr>
<td>18,000</td>
<td>Holiday Corp.</td>
<td>&quot;</td>
<td>27.2799</td>
<td>492,198.00</td>
<td>0.00</td>
</tr>
<tr>
<td>2,500</td>
<td>Motorola, Inc.</td>
<td>&quot;</td>
<td>41.2500</td>
<td>103,300.00</td>
<td>1,600.00</td>
</tr>
</tbody>
</table>

$1,847,821.67     $22,096.31

* Gift.
Common & Preferred Stock

Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>First Fidelity Bancorp.</td>
<td>Chicago</td>
<td>27.3750</td>
<td>$109,256.35</td>
<td>$(43,961.82)</td>
</tr>
<tr>
<td>13,500</td>
<td>Oracle Systems Corp.</td>
<td>Nicholas-Applegate</td>
<td>17.9010</td>
<td>241,663.50</td>
<td>$(29,261.50)</td>
</tr>
<tr>
<td>1,900</td>
<td>TW Services, Inc.</td>
<td>&quot;</td>
<td>26.7500</td>
<td>50,709.30</td>
<td>19,519.52</td>
</tr>
<tr>
<td>171</td>
<td>Chevron Corp.*</td>
<td>OSU</td>
<td>47.3750</td>
<td>7,952.85</td>
<td>1.35</td>
</tr>
<tr>
<td>20</td>
<td>Figgie International, Inc. CL</td>
<td>&quot;</td>
<td>92.5000</td>
<td>1,841.80</td>
<td>1.80</td>
</tr>
<tr>
<td>50</td>
<td>General Electric Co.*</td>
<td>&quot;</td>
<td>45.8750</td>
<td>2,274.67</td>
<td>5.92</td>
</tr>
<tr>
<td>15</td>
<td>Teledyne, Inc.*</td>
<td>&quot;</td>
<td>331.2500</td>
<td>4,962.43</td>
<td>83.68</td>
</tr>
<tr>
<td>9,400</td>
<td>Burlington Northern, Inc.</td>
<td>Siebel</td>
<td>22.7110</td>
<td>212,818.28</td>
<td>28,993.53</td>
</tr>
<tr>
<td>28,700</td>
<td>Healthvest, Inc.</td>
<td>&quot;</td>
<td>17.0100</td>
<td>486,161.72</td>
<td>$(87,838.28)</td>
</tr>
<tr>
<td>12,000</td>
<td>Vista Chemical Co.</td>
<td>&quot;</td>
<td>52.2550</td>
<td>626,319.09</td>
<td>5,219.09</td>
</tr>
</tbody>
</table>

$1,743,959.99  $(107,136.71)

* Gift.
## The Ohio State University
Bonds/Notes

### Purchases Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond 9.125% 05/15/18</td>
<td>Cambridge</td>
<td>8.9874</td>
<td>8.9742</td>
<td>101.5312</td>
<td>$913,781.25</td>
</tr>
<tr>
<td>575,000</td>
<td>General Motors Corp. 8.125% 04/15/16</td>
<td>Centerre</td>
<td>9.8565</td>
<td>10.0129</td>
<td>82.4330</td>
<td>473,989.75</td>
</tr>
<tr>
<td>3,406,000</td>
<td>U.S. Treasury Bond (Tigra) 0.000% 11/15/10</td>
<td>&quot;</td>
<td>0.0000</td>
<td>9.4860</td>
<td>13.2560</td>
<td>451,499.36</td>
</tr>
<tr>
<td>4,065,000</td>
<td>U.S. Treasury Bond (Tigra) 0.000% 08/15/13</td>
<td>&quot;</td>
<td>0.0000</td>
<td>9.2800</td>
<td>16.9640</td>
<td>689,585.60</td>
</tr>
<tr>
<td>7,170,000</td>
<td>U.S. Treasury Bond 10.375% 11/15/12</td>
<td>STW</td>
<td>9.3591</td>
<td>9.2388</td>
<td>110.8545</td>
<td>7,948,270.82</td>
</tr>
<tr>
<td>2,200,000</td>
<td>U.S. Treasury Note 9.250% 08/15/98</td>
<td>&quot;</td>
<td>9.2178</td>
<td>9.1913</td>
<td>100.3494</td>
<td>2,207,687.50</td>
</tr>
</tbody>
</table>

$12,684,815.28
### Bonds

#### Sales Made During Period

<table>
<thead>
<tr>
<th>Per Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>900,000 U.S. Treasury Bond</td>
<td>8.875% 08/15/17</td>
<td>Cambridge</td>
<td>97.9062</td>
<td>$881,156.25</td>
<td>$1,125.00</td>
</tr>
<tr>
<td>500,000 British Petroleum of North America Corp.</td>
<td>10.000% 07/01/18</td>
<td>Centerre</td>
<td>98.9375</td>
<td>494,687.50</td>
<td>(1,937.50)</td>
</tr>
<tr>
<td>11,830,000 U.S. Treasury Bond (Tigre)</td>
<td>0.000% 08/15/14</td>
<td>&quot;</td>
<td>9.5900</td>
<td>1,134,497.00</td>
<td>(27,209.00)</td>
</tr>
<tr>
<td>12,320,000 U.S. Treasury Bond</td>
<td>7.250% 05/15/16</td>
<td>STW</td>
<td>82.5164</td>
<td>10,166,022.66</td>
<td>562,134.11</td>
</tr>
</tbody>
</table>

**Total Gain/(Loss):** $12,676,363.41 $534,112.61
<table>
<thead>
<tr>
<th>Description</th>
<th>Year</th>
<th>Value</th>
<th>Appraised Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 930 Kiln Road</td>
<td>1962</td>
<td>435,204</td>
<td>1,400,000</td>
</tr>
<tr>
<td>Building and 5.36 acres at 1100 Kiln Road</td>
<td>1984</td>
<td>825,000</td>
<td>1,900,000</td>
</tr>
<tr>
<td>Building and 2.635 acres at 1900 Kenny Road</td>
<td>1961</td>
<td>659,950</td>
<td>1,150,000</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,300,000</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>1968</td>
<td>170,000</td>
<td>570,000</td>
</tr>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>1971</td>
<td>100,793</td>
<td>137,000</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>1973</td>
<td>35,332 (1)</td>
<td>35,332</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>1978</td>
<td>80,813 (1)</td>
<td>80,813</td>
</tr>
<tr>
<td>House and .23 acres of land, 760 Beautyview</td>
<td>1968</td>
<td>100,000</td>
<td>100,000</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>1966</td>
<td>190,000</td>
<td>250,000</td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>1962</td>
<td>160,265</td>
<td>2,762,000</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>1972</td>
<td>544,398</td>
<td>4,124,000</td>
</tr>
<tr>
<td>76.143 acres of land, 3255 West Granville Road</td>
<td>1968</td>
<td>310,538</td>
<td>6,472,000</td>
</tr>
<tr>
<td>30.519 acres of land, 3571 West Granville Road</td>
<td>1971</td>
<td>265,079</td>
<td>2,596,000</td>
</tr>
<tr>
<td>32 acres of land, 3571 West Granville Road</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,720,000</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>1965</td>
<td>24,000</td>
<td>1,020,000</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>1968</td>
<td>17,114</td>
<td>727,000</td>
</tr>
<tr>
<td>Undivided one-half interest in building and</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
</tr>
<tr>
<td>.65 acre at 1135 South Hamilton Road</td>
<td>1978</td>
<td>261,848</td>
<td>950,000</td>
</tr>
<tr>
<td>20.908 acres of land on Schier-Rings Road</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
</tr>
<tr>
<td>17.92 acres of land on Eitelman Road</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>1970</td>
<td>3,767,261</td>
<td>6,400,000</td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
### THE OHIO STATE UNIVERSITY

**UNIVERSITY CASH INVESTMENT SUMMARY**

*As of December 31, 1988*

<table>
<thead>
<tr>
<th></th>
<th>Month</th>
<th>Past 12 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cash Income</strong></td>
<td>$ 1,585,627</td>
<td>$ 14,546,992</td>
</tr>
<tr>
<td><strong>Average Maturity</strong></td>
<td>2.8 years</td>
<td>2.8 years</td>
</tr>
<tr>
<td><strong>Asset Balance</strong></td>
<td>$177,399,000</td>
<td>$193,288,613</td>
</tr>
<tr>
<td><strong>Yield to Maturity</strong></td>
<td>8.050%</td>
<td>7.543%</td>
</tr>
<tr>
<td><strong>Donoghue's U.S. Gov't &amp; Agencies</strong></td>
<td>7.780%</td>
<td>6.371%</td>
</tr>
<tr>
<td></td>
<td>30 day yield</td>
<td></td>
</tr>
</tbody>
</table>

**Portfolio Composition**

<table>
<thead>
<tr>
<th></th>
<th>12-31-88</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Treasury Notes &amp; Bills</td>
<td>$37,500,000</td>
<td>21.14%</td>
</tr>
<tr>
<td>U.S. Government Agencies</td>
<td>$139,899,000</td>
<td>78.86%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$177,399,000</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

736
MEMORANDUM

Subject: Proxy Voting

Date: January 31, 1989

From: Alvin C. Rodack, Associate Treasurer

To: Board of Trustees, The Ohio State University

During the months of December 1988 and January 1989, the University voted sixteen proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Amendment to fix the number of directors at eleven;
3) Ratification of independent auditors;
4) Approval of a name change for a mutual fund;
5) Approval of a change in investment policy for a mutual fund;
6) Amendment to limit the liability of the directors and officers;
7) Approval of a merger agreement between three entities into one new entity;
8) Approval of a new capitalization plan with regard to a merger;
9) Amendment allowing for stockholder actions to be taken only during scheduled stockholder meetings;
10) Amendment allowing the Board of Directors to issue preferred stock with voting rights;
11) Approval allowing the Board of Directors to issue non-convertible preferred stock;
12) Amendment to increase common stock shares available for a 1981 stock option plan and an employee stock purchase plan;
13) Adoption of a 1989 stock option plan; amendment to a 1986 United Kingdom option program to increase common stock shares available for the plan;
14) Ratification of a plan that would eliminate any limitations on the number of shares of common stock for which directors may be granted options.
Shareholder proposals were as follows:

1) Require the audit committee to meet a minimum of three times a year;
2) Amendment that would bar one individual from holding the position of Chairman, President and Corporate Secretary, concurrently;
3) Resolution requiring elimination of business activity, in the Republic of South Africa.

The University voted for all management proposals, for shareholder proposal number three and against shareholder proposals one and two. Management was opposed to all shareholder proposals.

The sixteen corporations were:

1) Alberto-Culver Company
2) Apple Computer Incorporated
3) Black and Decker Corporation
4) Cardinal Government Securities Trust
5) Cardinal Tax-Exempt Money Trust
6) Comdisco Incorporated
7) Emerson Electric Company
8) Energy Fund Incorporated
9) Federal Land Bank Association, Fourth District
10) Lubys Cafeterias Incorporated
11) National Service Industries Incorporated
12) Products Research and Chemical Corporation
13) Ralston Purina Company
14) Varian Associates Incorporated
15) Walgreen Company
16) The Walt Disney Company
APPENDIX XVI

RECOMMENDATIONS FROM THE OFFICE OF THE TREASURER REGARDING THE ENNIS KNUPP REPORT AND THE INVESTMENT POLICY FOR THE OHIO STATE UNIVERSITY ENDOWMENT FUND

Presented to the Investments Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 671)
RECOMMENDATIONS FROM THE OFFICE OF THE TREASURER REGARDING THE ENNIS KNUPP REPORT AND THE INVESTMENT POLICY FOR THE OHIO STATE UNIVERSITY ENDOWMENT FUND

RECOMMENDATION: OSU’S INVESTMENT PHILOSOPHY GOALS

We believe that the Trustees have done well to establish as a goal to preserve the purchasing power of the endowment. But the University’s secondary endowment goal -- to produce a certain level of income yield -- seems incongruous with the University’s total-return orientation. In fact, it might cause an inappropriate emphasis of fixed-income securities. We recommend against an emphasis of current income in the policy statement.

COMMENTS: We agree with this recommendation. Total return in order to maintain purchasing power should be emphasized as the goal of the endowment while current income should be a goal of University investments. Modification is needed in the investment policy statement.

RECOMMENDATION: INVESTMENT POLICY AFFECTING THE OVERALL RISK LEVEL

We recommend that the University have an investment policy calling for the following allocation to stocks, bonds, and real estate:

<table>
<thead>
<tr>
<th>Investment Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>60%</td>
</tr>
<tr>
<td>Fixed-Income</td>
<td>25%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>15%</td>
</tr>
<tr>
<td>Cash</td>
<td>10%</td>
</tr>
</tbody>
</table>

We believe that this policy will likely provide a long-term return great enough to allow the University to meet its goal of preserving the purchasing power of the endowment given the current spending policy.

COMMENTS: The Office of the Treasurer disagrees that a specific allocation should be made to stocks, bonds, and real estate since this specific allocation could be too restrictive during wide market swings. We would support a narrowing of the current ranges as follows:

<table>
<thead>
<tr>
<th>Investment Category</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equities</td>
<td>50-75%</td>
</tr>
<tr>
<td>Fixed-Income</td>
<td>25-50%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>5-20%</td>
</tr>
<tr>
<td>Cash</td>
<td>0-20%</td>
</tr>
</tbody>
</table>
RECOMMENDATION: THE UNIVERSITY'S REAL ESTATE INVESTMENTS

Real estate investments can play an important role in the endowment, providing diversification, consistent and competitive returns, and inflation protection. The University's current endowment real estate investments are highly concentrated. This concentration creates greater uncertainty concerning whether the University will achieve the benefits listed above, but we do not believe that the amount of concentrated real estate investments is imprudent.

We recommend that the University refrain from adding related properties to its concentrated endowment real estate holdings. But, as gift additions and perhaps real estate sales reduce the significance of the concentrated real estate in the endowment, we recommend that the University invest in diversified real estate funds to maintain the 15% policy allocation to real estate.

COMMENTS: The Office of the Treasurer agrees that the current percentage is appropriate. We feel geographic diversification is appropriate including the usage of pooled real estate funds. All local real estate holdings are now examined based on their investment merit. We feel if attractive real estate investments arise locally, they should still be considered as a viable endowment investment.

RECOMMENDATION: FURTHERING DIVERSIFICATION

We recommend that the Trustees further the diversification of the endowment portfolio by adding investments in small-capitalization stocks and foreign stocks.

Small-capitalization stocks represent approximately 30% of the U.S. stock market and have provided greater long-term returns than stocks of larger companies. Foreign stocks represent approximately two-thirds of the world stock market and thus are an important investment opportunity. The returns of both small-capitalization stocks and foreign stocks are imperfectly correlated with large-capitalization stock returns, and could thus provide important diversification benefits to the total endowment.

COMMENTS: The Office of the Treasurer feels that investment in foreign equities or fixed income would be appropriate. However, this should be done via a mutual or index fund. The type of domestic equities purchased should be left to the discretion of our advisors.
RECOMMENDATION: ASSET ALLOCATION POLICY

We recommend the following overall asset allocation policy for the OSU endowment:

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large-capitalization stock</td>
<td>35%</td>
</tr>
<tr>
<td>Small-capitalization stock</td>
<td>15%</td>
</tr>
<tr>
<td>Foreign stock</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Total stocks</strong></td>
<td><strong>60%</strong></td>
</tr>
<tr>
<td>Bonds</td>
<td>25%</td>
</tr>
<tr>
<td>Real estate</td>
<td>15%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

This allocation is superior to the current allocation of the endowment of 60% in domestic, large capitalization stocks in that it can be expected to provide a greater rate of return per unit of risk incurred.

COMMENTS: The Office of the Treasurer is opposed to specific allocations. We feel that suggested equity, fixed income, real estate ranges are appropriate. However, breaking these groupings down further (such as small capitalization and foreign equities) is unnecessary. If the trustees feel that a specific sector of the market is desirable in the portfolio, then they can direct the selection of investment advisors, index or mutual funds toward that specific area.

RECOMMENDATION: MAINTAINING THE ASSET ALLOCATION

The University's current policy statement allows common stock to vary within a range of 30% to 70% of the endowment. We recommend that the University re-allocate assets as needed to maintain the approximate allocation called for by our policy recommendation. If the level of common stock exposure is allowed to wander within a large range, there can be no assurance of meeting the Trustee's objective of preserving the purchasing power of the endowment.

COMMENTS: As stated previously, the Office of the Treasurer is opposed to specific asset allocation. However, we should support a narrowing of the ranges as they are currently written. The current practice of holding new funds in cash equivalents until annual advisor allocations are made should be revised. Direction should be given to the Treasurer toward the investing of new funds until permanent allocations are made.
RECOMMENDATION: USE OF INDEX FUNDS

We believe that the University would benefit by investing a portion of the endowment in Index Funds that match the returns and risk level of various market indices. Index Funds provide broad diversification at a very low cost, provide for the efficient transfer of funds between asset types, require minimal review on the part of the Trustees, and earn consistent, market-like returns.

We recommend that the University use Index Funds for the foreign stock and small-capitalization stock investments, should the Trustees decide to add these asset classes to the endowment. We also recommend that some portion of the large-capitalization stocks and bonds be invested in Index Funds, the amount depending on the Trustees' confidence in the current active investment managers.

COMMENTS: The Office of the Treasurer agrees that indexing would be an appropriate strategy. We agree that indexing should be done for both equities and fixed income, however, we do not necessarily agree that they be used for small capitalization stocks. We believe indexing should be done at a broad level and advisors should be used for more specialized areas. If the purchase of foreign equities is allowed, then we would recommend consideration of an index fund for that purpose. We would also recommend that if indexing is to be utilized, that no less than ten percent of the endowment be indexed.

RECOMMENDATION: THE MULTIPLE-MANAGER APPROACH

We are advocates of simplicity where possible in investment programs. The University's endowment has six fixed-income portfolios (including those internally managed) and five common stock portfolios (including the internally managed one and counting the three mutual funds as one). Our recommendations call for the addition of index funds and two new asset classes. At some point the program could become too unwieldy, requiring the Trustees to spend too much time monitoring investment management firms and allowing too little time for policy issues.

There is no optimal number of managers, but the endowment's current arrangement is at the high end of what we believe would make sense for the University.

COMMENTS: The Office of the Treasurer is comfortable with the number of managers currently being used. If indexing is utilized, consideration should be given to hiring additional advisors only for specialized areas.
**RECOMMENDATION: INTERNALLY MANAGED PORTFOLIOS**

As of mid-October, the internally managed stock portfolio represented 31% of the common stock allocation of the endowment. The portfolio is regionally-biased toward Ohio-based firms, and its size, level of risk, concentration, etc., are partially determined by chance, i.e., by the securities the donors choose to give over time.

We recommend that the Trustees ask one or more of the endowment’s active managers to periodically review the list, that the Trustees set an upper limit on the internally managed stock of 25% of total stock, and that the University begin to cultivate an understanding with donors that it may hold donated stock for a short time only. We also recommend that the Trustees monitor the performance of the internally managed portfolio as they would any other portfolio.

The internally managed bond portfolio appears to have an important role as a holding place for monies to be redistributed. As long as the University maintains this portfolio at a relatively low level, we believe it serves a useful purpose.

We believe that in establishing the endowment’s GNMA portfolio, the Trustees have likely gotten involved in the investment process to a greater degree than is desirable. We recommend that the University rely on its external investment managers to select and monitor specific securities. We favor the elimination of this portfolio and the distribution of its assets among other fixed-income portfolios.

**COMMENTS:** The Office of the Treasurer disagrees with a limit on any manager including OSU. The key to effective management is diversification of the portfolio as a whole, but not necessarily at the manager level. We agree that providing donors with an understanding that donated stocks may only be held for a short time is appropriate. We feel the Office of the Treasurer should take a more active role in managing the internal stock portfolio and gifts of securities donated to the University. The Trustees are already monitoring the performance of the internally managed portfolio as they would any other portfolio.

We believe a GNMA portfolio adds to the portfolio diversification and that the Office of the Treasurer has the expertise to manage this portfolio.
RECOMMENDATION: A STATEMENT OF INVESTMENT POLICY

In Appendix 2 we provide a statement of investment policy that reflects our principal policy recommendations. It excludes references to maximum industry concentrations, position sizes, etc., as we believe that the Trustees can fulfill their duties with respect to diversification through the use of index funds and by requiring the multiple active managers to diversify to the extent they deem appropriate given their roles in the endowment investment program.

COMMENTS: The Office of the Treasurer believes that the current investment policy which has been in place since 1981 needs to be revised and updated. Based on what actions are taken regarding the previous recommendations, the Office of the Treasurer is prepared to draft a revised investment policy and present it to the Investment Committee for their review. This policy revision should also include the policy on University Investments.
APPENDIX XVII

PROGRESS REPORT ON THE
OHIO STATE UNIVERSITY CAMPAIGN

Presented to the Investments Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 671)
### The Ohio State University Campaign Progress Report
#### December 31, 1988

<table>
<thead>
<tr>
<th>*Campaign Expectancies</th>
<th>Current Year Campaign Receipts (Jul 88-Dec 88)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1988</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>$63,816,581</td>
<td>$9,027,638</td>
<td>$38,283,424</td>
<td>$111,127,643</td>
<td>$122,500,000</td>
</tr>
<tr>
<td>Friends</td>
<td>32,762,115</td>
<td>4,131,435</td>
<td>28,643,850</td>
<td>65,537,400</td>
<td>70,000,000</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>14,380,162</td>
<td>10,585,214</td>
<td>101,125,935</td>
<td>126,091,311</td>
<td>122,500,000</td>
</tr>
<tr>
<td>Foundations</td>
<td>3,401,634</td>
<td>3,248,429</td>
<td>19,935,229</td>
<td>26,585,292</td>
<td>35,000,000</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$114,360,492</td>
<td>$26,992,716</td>
<td>$187,988,438</td>
<td>$329,341,646</td>
<td>$350,000,000</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

***FINAL REPORT***
### The Ohio State University
#### Office of University Development
#### OSU Foundation & Development Fund Receipts

**July-December 1987-88 Compared to 1988-89**

**Gift Receipts by Donor Type**

<table>
<thead>
<tr>
<th>Donor Type</th>
<th>Donors</th>
<th>Dollars</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>30,878</td>
<td>28,333</td>
<td>(8)</td>
</tr>
<tr>
<td>Non Alumni</td>
<td>13,887</td>
<td>13,041</td>
<td>(6)</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,200</td>
<td>1,294</td>
<td>8</td>
</tr>
<tr>
<td>Corporate Foundations</td>
<td>202</td>
<td>195</td>
<td>(3)</td>
</tr>
<tr>
<td>Private Foundations</td>
<td>106</td>
<td>115</td>
<td>8</td>
</tr>
<tr>
<td>Other</td>
<td>733</td>
<td>801</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>47,006</td>
<td>43,779</td>
<td>(7)</td>
</tr>
</tbody>
</table>

---

**Final Report**
APPENDIX XVIII

REPORT ON CURRICULUM REVIEW

Presented to the Academic Affairs Committee and Adopted by the Board of Trustees February 3, 1989
(See page 672)
The goals and the framework of the University's review of undergraduate education were described by the Special Committee on Undergraduate Curriculum Review in its Interim Report of January 1987. A special sub-committee in Arts and Sciences developed a curricular model to address the general education goals set forth by the University Committee. This model was approved by the Arts and Sciences faculty last June.

The Arts and Sciences model includes a strong emphasis on the development of basic skills in writing, data analysis, and foreign languages. It includes a strong science requirement for non-science students. Students will be required to take courses that focus on the United States and Europe, as well as courses that focus on areas other than Europe and the United States. There are new requirements in the areas of social diversity, the arts, and international affairs. The new general education curriculum is spread across a student's total undergraduate program rather than being contained in the first two years, and includes in the senior year a "Contemporary Issues" Capstone course. The requirements are designed to provide a structured, cohesive liberal arts experience for all students.

General education curricular models are now being developed and proposed by the professional colleges. These proposals show strong liberal education being integrated into professional programs. Although alternative ways of meeting general education goals are sometimes proposed, the requirements in the professional colleges are expected to address the same goals of general education that were established by the University Committee.

Having completed the review of general education, departments in Arts and Sciences have moved on to the review of majors and minors. A primary purpose of these reviews is to establish a careful articulation between the requirements of the major and the requirements of general education. It is expected that these reviews in Arts and Sciences will be finished by June. As each professional college finishes its general education review, the college will move on to a review of its major programs.

Curriculum review committees have already begun to receive and review course proposals to meet the new requirements. Special funds have been designated within the Office of Academic Affairs to support new course development, and proposals are being received from the departments. Some new courses are being piloted this year. Full implementation of the new curriculum is expected in the 1990-91 academic year.
APPENDIX XVIII

THE OHIO STATE UNIVERSITY
DIVISION OF STUDENT AFFAIRS
OFFICE OF RESIDENCE AND DINING HALLS

Presented to the Student Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 690)
THE OHIO STATE UNIVERSITY

Division of Student Affairs

Office of Residence and Dining Halls
MISSION STATEMENT

The mission of Residence and Dining Halls is to provide living and learning environments for students, faculty, staff and guests which contribute to and support the University mission of excellence in teaching, research, and service.
## THE OHIO STATE UNIVERSITY
OFFICE OF RESIDENCE AND DINING HALLS
ORGANIZATIONAL OVERVIEW

<table>
<thead>
<tr>
<th>Administrative Offices:</th>
<th>600 Lincoln Tower, 1800 Cannon Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Budget:</td>
<td>$36,545,000</td>
</tr>
<tr>
<td>Staffing:</td>
<td>53 Administrative and Professional</td>
</tr>
<tr>
<td></td>
<td>37 Graduate</td>
</tr>
<tr>
<td></td>
<td>525 Civil Service</td>
</tr>
<tr>
<td></td>
<td>1,250 Student</td>
</tr>
<tr>
<td>Students Housed:</td>
<td>9,843 Undergraduates</td>
</tr>
<tr>
<td></td>
<td>783 Graduates</td>
</tr>
<tr>
<td></td>
<td>393 Student Families</td>
</tr>
<tr>
<td>Conference/Workshop Bednights:</td>
<td>81,500 (Average Annual)</td>
</tr>
<tr>
<td>Facilities Managed:</td>
<td>24 Undergraduate Halls</td>
</tr>
<tr>
<td></td>
<td>3 Graduate Halls</td>
</tr>
<tr>
<td></td>
<td>1 Cooperative House</td>
</tr>
<tr>
<td></td>
<td>71 Graduate Apartments</td>
</tr>
<tr>
<td></td>
<td>400 Family Apartments (33 Buildings)</td>
</tr>
<tr>
<td></td>
<td>6 Dining Commons</td>
</tr>
<tr>
<td></td>
<td>2 Regional Housing Operations (10 Buildings)</td>
</tr>
<tr>
<td>Meals Served:</td>
<td>3,380,000 (Average Annual)</td>
</tr>
</tbody>
</table>
RESIDENCE AND DINING HALLS ORGANIZATIONAL CHART
Residence and Dining Halls
Budgeted Income Sources

1988-89
$(000)

Graduate Housing $1,980
5%
Conferences $1,137
3%
Family Housing $1,318
4%
All Other $1,499
4%
Investments $315
1%
Room and Board $30,296
83%

Total Revenue Budget $36,545,000
Residence and Dining Halls
Proposed Expenditures Budget
1988-89
$(000)

- University Transfers $3,581 (10%)
- Equipment $217 (1%)
- Supplies and Services $3,362 (9%)
- Food/Cost of Sales $4,670 (13%)
- Benefits $3,360 (9%)
- Salaries and Wages $12,566 (34%)
- Utilities $2,803 (8%)
- Telephones $1,235 (3%)
- Debt Service and Capital $4,751 (13%)

Total Expenditures Budget $36,545,000
# RESIDENCE AND DINING HALLS
## CONSOLIDATED OPERATING SUMMARY FOR DRF AND HCJ FUNDS

<table>
<thead>
<tr>
<th></th>
<th>FY 83-84</th>
<th>FY 84-85</th>
<th>FY 85-86</th>
<th>FY 86-87</th>
<th>FY 87-88</th>
<th>Projection FY 88-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room and Board</td>
<td>$30,283,911</td>
<td>$30,261,149</td>
<td>$31,225,750</td>
<td>$31,081,735</td>
<td>$33,286,950</td>
<td>$35,849,000</td>
</tr>
<tr>
<td>Interest</td>
<td>1,036,356</td>
<td>935,689</td>
<td>694,820</td>
<td>421,996</td>
<td>485,952</td>
<td>700,000</td>
</tr>
<tr>
<td>Building Rentals and Miscellaneous</td>
<td>1,077,320</td>
<td>625,713</td>
<td>651,451</td>
<td>1,168,886</td>
<td>681,176</td>
<td>687,000</td>
</tr>
<tr>
<td>Total Income</td>
<td>$32,399,585</td>
<td>$31,820,551</td>
<td>$32,572,021</td>
<td>$32,672,617</td>
<td>$34,456,078</td>
<td>$37,236,000</td>
</tr>
<tr>
<td>Operating Expenditures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Labor and Benefits</td>
<td>$11,738,526</td>
<td>$12,100,471</td>
<td>$12,530,851</td>
<td>$13,681,031</td>
<td>$14,346,453</td>
<td>$15,475,000</td>
</tr>
<tr>
<td>Food</td>
<td>5,075,475</td>
<td>4,922,833</td>
<td>4,656,402</td>
<td>4,508,421</td>
<td>4,535,697</td>
<td>4,750,000</td>
</tr>
<tr>
<td>Utilities</td>
<td>2,826,953</td>
<td>2,868,840</td>
<td>2,617,204</td>
<td>2,377,500</td>
<td>2,466,708</td>
<td>2,878,000</td>
</tr>
<tr>
<td>Telephone</td>
<td>744,017</td>
<td>806,505</td>
<td>991,161</td>
<td>998,517</td>
<td>1,048,506</td>
<td>1,340,000</td>
</tr>
<tr>
<td>Maintenance and Miscellaneous</td>
<td>3,530,195</td>
<td>2,383,212</td>
<td>3,772,934</td>
<td>5,584,209</td>
<td>4,073,468</td>
<td>4,135,000</td>
</tr>
<tr>
<td>Equipment</td>
<td>692,542</td>
<td>336,776</td>
<td>1,322,265</td>
<td>845,931</td>
<td>202,698</td>
<td>217,000</td>
</tr>
<tr>
<td>Subtotal</td>
<td>$24,608,668</td>
<td>$23,478,717</td>
<td>$25,890,817</td>
<td>$27,995,609</td>
<td>$28,673,530</td>
<td>$28,795,000</td>
</tr>
<tr>
<td>Transfers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University</td>
<td>$1,749,414</td>
<td>$1,749,734</td>
<td>$1,824,022</td>
<td>$1,803,518</td>
<td>$2,530,050</td>
<td>$3,609,000</td>
</tr>
<tr>
<td>Debt Service</td>
<td>2,414,050</td>
<td>2,612,403</td>
<td>2,215,696</td>
<td>2,185,163</td>
<td>2,555,807</td>
<td>2,703,000</td>
</tr>
<tr>
<td>Capital</td>
<td>2,052,862</td>
<td>4,632,731</td>
<td>9,584,717</td>
<td>478,178</td>
<td>900,007</td>
<td>2,034,000</td>
</tr>
<tr>
<td>Subtotal</td>
<td>$ 6,216,426</td>
<td>$ 8,994,868</td>
<td>$13,624,435</td>
<td>$ 4,446,859</td>
<td>$ 5,785,944</td>
<td>$ 8,546,000</td>
</tr>
<tr>
<td>Total Expenditures</td>
<td>$30,825,114</td>
<td>$32,473,585</td>
<td>$39,515,251</td>
<td>$32,442,468</td>
<td>$32,459,474</td>
<td>$37,141,000</td>
</tr>
<tr>
<td>Net Income</td>
<td>$ 1,574,481</td>
<td>$(653,034)</td>
<td>$(6,943,230)</td>
<td>$(230,149)</td>
<td>$(1,996,604)</td>
<td>$(95,000)</td>
</tr>
<tr>
<td>Year End Fund Balances</td>
<td>$ 7,175,559</td>
<td>$ 6,522,525</td>
<td>$(420,705)</td>
<td>$(190,556)</td>
<td>$(1,806,048)</td>
<td>$(1,901,048)</td>
</tr>
</tbody>
</table>
## 5 Year Comparison
### Big Ten Housing Survey
**For Predominantly Double Rooms**
**Room and Board Rates**
**1984 Through 1989**

<table>
<thead>
<tr>
<th>School</th>
<th>Room &amp; Board 1984-1985</th>
<th>$a</th>
<th>%a</th>
<th>Room &amp; Board 1985-1986</th>
<th>$a</th>
<th>%a</th>
<th>Room &amp; Board 1986-1987</th>
<th>$a</th>
<th>%a</th>
<th>Room &amp; Board 1987-1988</th>
<th>$a</th>
<th>%a</th>
<th>Room &amp; Board 1988-1989</th>
<th>$a</th>
<th>%a</th>
<th>Five Year Average Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Illinois</td>
<td>$2,670 [+]</td>
<td>$204</td>
<td>7.6%</td>
<td>$2,874 [+]</td>
<td>$136</td>
<td>4.7%</td>
<td>$3,010 [+]</td>
<td>$150</td>
<td>5.0%</td>
<td>$3,160 [+]</td>
<td>$152</td>
<td>4.8%</td>
<td>$3,312 [+]</td>
<td>5.5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indiana University</td>
<td>2,164 [+]</td>
<td>147</td>
<td>6.8%</td>
<td>2,311 [+]</td>
<td>115</td>
<td>5.0%</td>
<td>2,426 [+]</td>
<td>180</td>
<td>7.3%</td>
<td>2,604 [+]</td>
<td>160</td>
<td>6.1%</td>
<td>2,764 [+]</td>
<td>6.3%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Iowa</td>
<td>2,051 [+]</td>
<td>76</td>
<td>3.7%</td>
<td>2,127 [+]</td>
<td>117</td>
<td>5.5%</td>
<td>2,244 [+]</td>
<td>122</td>
<td>5.4%</td>
<td>2,366 [+]</td>
<td>123</td>
<td>5.2%</td>
<td>2,489 [+]</td>
<td>5.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Michigan</td>
<td>2,700 [+]</td>
<td>131</td>
<td>4.7%</td>
<td>2,911 [+]</td>
<td>142</td>
<td>4.9%</td>
<td>3,053 [+]</td>
<td>193</td>
<td>6.3%</td>
<td>3,246 [+]</td>
<td>179</td>
<td>5.5%</td>
<td>3,425 [+]</td>
<td>5.4%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michigan State University</td>
<td>2,412 [+]</td>
<td>69</td>
<td>2.9%</td>
<td>2,481 [+]</td>
<td>57</td>
<td>2.3%</td>
<td>2,538 [+]</td>
<td>96</td>
<td>3.8%</td>
<td>2,634 [+]</td>
<td>99</td>
<td>3.8%</td>
<td>2,735 [+]</td>
<td>3.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>2,427 [+]</td>
<td>69</td>
<td>2.8%</td>
<td>2,496 [+]</td>
<td>75</td>
<td>3.0%</td>
<td>2,571 [+]</td>
<td>129</td>
<td>5.0%</td>
<td>2,700 [+]</td>
<td>150</td>
<td>5.5%</td>
<td>2,850 [+]</td>
<td>4.1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northwestern University</td>
<td>3,585 [+]</td>
<td>258</td>
<td>7.2%</td>
<td>3,843 [+]</td>
<td>125</td>
<td>3.3%</td>
<td>3,968 [+]</td>
<td>129</td>
<td>3.3%</td>
<td>4,097 [+]</td>
<td>253</td>
<td>6.2%</td>
<td>4,350 [+]</td>
<td>5.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio State University</td>
<td>2,694 [+]</td>
<td>105</td>
<td>3.9%</td>
<td>2,799 [+]</td>
<td>84</td>
<td>3.0%</td>
<td>2,883 [+]</td>
<td>144</td>
<td>5.0%</td>
<td>3,027 [+]</td>
<td>270</td>
<td>8.9%</td>
<td>3,297 [+]</td>
<td>5.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purdue University</td>
<td>2,500 [+]</td>
<td>130</td>
<td>5.2%</td>
<td>2,630 [+]</td>
<td>110</td>
<td>4.1%</td>
<td>2,740 [+]</td>
<td>90</td>
<td>3.3%</td>
<td>2,830 [+]</td>
<td>120</td>
<td>4.2%</td>
<td>2,950 [+]</td>
<td>4.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Wisconsin</td>
<td>2,440 [+]</td>
<td>130</td>
<td>5.3%</td>
<td>2,570 [+]</td>
<td>154</td>
<td>6.0%</td>
<td>2,724 [+]</td>
<td>119</td>
<td>4.4%</td>
<td>2,843 [+]</td>
<td>147</td>
<td>5.2%</td>
<td>2,990 [+]</td>
<td>5.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Average&quot;</td>
<td>$2,572</td>
<td>$132</td>
<td>5.0%</td>
<td>$2,704</td>
<td>$112</td>
<td>4.2%</td>
<td>$2,816</td>
<td>$135</td>
<td>4.8%</td>
<td>$2,950</td>
<td>$165</td>
<td>5.6%</td>
<td>$3,115</td>
<td>4.9%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 5 Year Comparison
### Ohio Universities
#### Room and Board Rates 1964 through 1969

|------------------------------------|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|
## RESIDENCE AND DINING HALLS
### NET YIELD - AUTUMN QUARTER OPENING
#### TOTAL CONTRACTS OFFERED/RETURNED

<table>
<thead>
<tr>
<th>Year</th>
<th>82-83</th>
<th>83-84</th>
<th>84-85</th>
<th>85-86</th>
<th>86-87</th>
<th>87-88</th>
<th>88-89</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Renewals</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total offered</td>
<td>9558</td>
<td>9704</td>
<td>9408</td>
<td>9124</td>
<td>9012</td>
<td>8750</td>
<td>8684</td>
</tr>
<tr>
<td>Net for assignment</td>
<td>3993</td>
<td>4095</td>
<td>3771</td>
<td>3793</td>
<td>3728</td>
<td>3474</td>
<td>3119</td>
</tr>
<tr>
<td>Net yield %</td>
<td>41.8%</td>
<td>42.2%</td>
<td>39.8%</td>
<td>41.6%</td>
<td>41.4%</td>
<td>39.7%</td>
<td>35.9%</td>
</tr>
<tr>
<td><strong>NPQF</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paid Acceptance Fees</td>
<td>8512</td>
<td>8415</td>
<td>8100</td>
<td>8327</td>
<td>8536</td>
<td>7665</td>
<td>8762</td>
</tr>
<tr>
<td>Net for assignment</td>
<td>5396</td>
<td>5232</td>
<td>5056</td>
<td>5254</td>
<td>5484</td>
<td>5079</td>
<td>5791</td>
</tr>
<tr>
<td>Net yield %</td>
<td>63.4%</td>
<td>62.2%</td>
<td>62.4%</td>
<td>63.1%</td>
<td>64.2%</td>
<td>66.3%</td>
<td>66.1%</td>
</tr>
<tr>
<td><strong>Transfers &amp; Others</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total offered</td>
<td>1872</td>
<td>1852</td>
<td>1701</td>
<td>1539</td>
<td>1461</td>
<td>1792</td>
<td>1609</td>
</tr>
<tr>
<td>Net for assignment</td>
<td>972</td>
<td>990</td>
<td>1020</td>
<td>720</td>
<td>634</td>
<td>932</td>
<td>912</td>
</tr>
<tr>
<td>Net yield %</td>
<td>51.9%</td>
<td>53.4%</td>
<td>60.0%</td>
<td>46.8%</td>
<td>43.4%</td>
<td>52.0%</td>
<td>56.7%</td>
</tr>
</tbody>
</table>

*Line numbers refer to the respective columns in the table.*
## RESIDENCE AND DINING HALLS

### SEVEN YEAR MEAL PLAN, MEALS ONLY, AND ROOM ONLY TRENDS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Autumn Quarter</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEALS CONTRACTS</td>
<td>9991</td>
<td>10217</td>
<td>9004</td>
<td>9638</td>
<td>9436</td>
<td>8963</td>
<td>9905</td>
</tr>
<tr>
<td>Meals Only - Off Campus</td>
<td>306</td>
<td>306</td>
<td>246</td>
<td>249</td>
<td>229</td>
<td>284</td>
<td>429</td>
</tr>
<tr>
<td>Room Only</td>
<td>591</td>
<td>580</td>
<td>620</td>
<td>626</td>
<td>636</td>
<td>580</td>
<td>499</td>
</tr>
<tr>
<td><strong>Winter Quarter</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEALS CONTRACTS</td>
<td>9962</td>
<td>10133</td>
<td>9557</td>
<td>9529</td>
<td>8963</td>
<td>8865</td>
<td>9859</td>
</tr>
<tr>
<td>Meals Only - Off Campus</td>
<td>277</td>
<td>306</td>
<td>228</td>
<td>197</td>
<td>197</td>
<td>263</td>
<td>371</td>
</tr>
<tr>
<td>Room Only</td>
<td>733</td>
<td>483</td>
<td>560</td>
<td>586</td>
<td>583</td>
<td>554</td>
<td>491</td>
</tr>
<tr>
<td><strong>Spring Quarter</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEALS CONTRACTS</td>
<td>9666</td>
<td>9731</td>
<td>9097</td>
<td>9074</td>
<td>8637</td>
<td>8793</td>
<td>--</td>
</tr>
<tr>
<td>Meals Only - Off Campus</td>
<td>265</td>
<td>227</td>
<td>171</td>
<td>162</td>
<td>162</td>
<td>239</td>
<td>--</td>
</tr>
<tr>
<td>Room Only</td>
<td>573</td>
<td>601</td>
<td>546</td>
<td>569</td>
<td>596</td>
<td>571</td>
<td>--</td>
</tr>
</tbody>
</table>
RESIDENCE AND DINING HALLS
FACILITIES REPAIR
COST PROJECTIONS

Facilities Assessment

1981
$91.9 Million
$32.5 Million

1988
$75.8 Million
$33.4 Million

Legend:
- •••••• 25 Year Assessment
- Present Requirements 1-5 Year Assessment
### RESIDENCE AND DINING HALLS
#### MAJOR CAPITAL PROJECTS
#### FISCAL YEARS 1984-89

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stadium Renovation</td>
<td>$8,232,531</td>
</tr>
<tr>
<td>Buckeye Village</td>
<td>7,835,360</td>
</tr>
<tr>
<td>Jones Tower</td>
<td>1,991,258</td>
</tr>
<tr>
<td>Morrill and Lincoln Towers</td>
<td>1,046,159</td>
</tr>
<tr>
<td>North Commons</td>
<td>479,139</td>
</tr>
<tr>
<td>Raney Commons</td>
<td>469,407</td>
</tr>
<tr>
<td>ATI Residence Hall Purchase and Improvements</td>
<td>1,400,000</td>
</tr>
<tr>
<td>Stone Laboratory</td>
<td>200,000</td>
</tr>
<tr>
<td>Misc. Projects - roofs, HVAC, windows, elevators, modifications for physically challenged</td>
<td>9,169,031</td>
</tr>
<tr>
<td></td>
<td><strong>$30,822,885</strong></td>
</tr>
</tbody>
</table>
## RESIDENCE AND DINING HALLS STAFFING
### 8 YEAR COMPARISON OF REGULAR AND STUDENT STAFF FTE

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Staff</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1981</td>
<td>900.0</td>
<td>626.5</td>
<td>273.5</td>
</tr>
<tr>
<td>1982</td>
<td>870.6</td>
<td>599.9</td>
<td>270.7</td>
</tr>
<tr>
<td>1983</td>
<td>872.3</td>
<td>592.5</td>
<td>279.8</td>
</tr>
<tr>
<td>1984</td>
<td>846.1</td>
<td>569.8</td>
<td>276.3</td>
</tr>
<tr>
<td>1985</td>
<td>811.8</td>
<td>564.7</td>
<td>247.1</td>
</tr>
<tr>
<td>1986</td>
<td>844.4</td>
<td>564.5</td>
<td>279.9</td>
</tr>
<tr>
<td>1987</td>
<td>877.6</td>
<td>575.9</td>
<td>301.7</td>
</tr>
<tr>
<td>1988</td>
<td>822.0</td>
<td>549.2</td>
<td>272.8</td>
</tr>
</tbody>
</table>
### RESIDENCE AND DINING HALLS
#### 6 YEAR COMPARISON OF AFFIRMATIVE ACTION DATA

<table>
<thead>
<tr>
<th>Year</th>
<th>Executive, Administrative, Managerial (01)</th>
<th>Technical and Paraprofessional (05)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Female</td>
</tr>
<tr>
<td>1983</td>
<td>9</td>
<td>44.5%  (4)</td>
</tr>
<tr>
<td>1984</td>
<td>12</td>
<td>50.0%  (6)</td>
</tr>
<tr>
<td>1985</td>
<td>16</td>
<td>50.0%  (8)</td>
</tr>
<tr>
<td>1986</td>
<td>19</td>
<td>57.6%  (10)</td>
</tr>
<tr>
<td>1987</td>
<td>19</td>
<td>52.6%  (10)</td>
</tr>
<tr>
<td>1988</td>
<td>21</td>
<td>52.4%  (11)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Professional Non-Faculty (03)</th>
<th>Skilled Crafts (06)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Female</td>
</tr>
<tr>
<td>1983</td>
<td>85</td>
<td>49.4%  (42)</td>
</tr>
<tr>
<td>1984</td>
<td>79</td>
<td>58.2%  (46)</td>
</tr>
<tr>
<td>1985</td>
<td>81</td>
<td>55.6%  (45)</td>
</tr>
<tr>
<td>1986</td>
<td>83</td>
<td>56.6%  (47)</td>
</tr>
<tr>
<td>1987</td>
<td>86</td>
<td>58.1%  (50)</td>
</tr>
<tr>
<td>1988</td>
<td>80</td>
<td>53.0%  (43)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Clerical and Secretarial (04)</th>
<th>Service/Maintenance (07)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Female</td>
</tr>
<tr>
<td>1983</td>
<td>51</td>
<td>90.2%  (46)</td>
</tr>
<tr>
<td>1984</td>
<td>50</td>
<td>90.0%  (45)</td>
</tr>
<tr>
<td>1985</td>
<td>50</td>
<td>86.0%  (43)</td>
</tr>
<tr>
<td>1986</td>
<td>52</td>
<td>88.5%  (46)</td>
</tr>
<tr>
<td>1987</td>
<td>49</td>
<td>83.7%  (41)</td>
</tr>
<tr>
<td>1988</td>
<td>44</td>
<td>84.1%  (37)</td>
</tr>
</tbody>
</table>
APPENDIX XX

THE OHIO STATE UNIVERSITY
COLLEGE OF AGRICULTURE - DEVELOPMENT UPDATE
January 1989

Presented to the Agricultural Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 694)
Historical
Since the beginning of The Ohio State University College of Agriculture’s Campaign in May of 1985, many factors have undergone change, and they continue to change as new leadership exerts its diverse interest and new priorities upon the many facets of the College of Agriculture’s programs.

Since planning for the Campaign began in 1983, the College of Agriculture has experienced a leadership change — from Max Lennon to Acting Dean Francille Firebaugh and now Fred Hutchinson. Every department chair has changed in the past four years. Also, the development officer, Clancy Bieiger, replaced Bob Groves just two years ago.

Donor Sources
Each year our dollar goal has been exceeded and substantial progress has been made in developing a solid growing donor base, an important long-range ingredient. The alumni donor base has grown from 3,000 to 4,500. Corporate and foundation donors have increased from 390 to 515 and other organizations and associations have increased from 300 to 370. Substantial activity in the wills and bequests area has uncovered a number of wills. Efforts continue to convert wills to irrevocable trusts through donor cultivation and education.

Types of Gifts
During the Campaign we have received cash and securities in the amount of $12.6 million, gifts-in-kind (i.e., equipment, animals, supplies, etc.) counted at $2.3 million and irrevocable deferred gifts of over $601,000. Expectancies or pledges amounting to $1.7 million brings our total to over $17.2 million. Private gifts from Ohio State Research Foundation sources totaling over $1 million, added to the above gives us a total of $18.2 million exceeding our $18 million goal.

College of Agriculture Priorities
Changes in executive leadership, departmental chairs, the changing agricultural picture economically, and environmentally, all have had effects upon the interests and needs of faculty, researchers and donors. Much of our funding efforts either have been or are currently focused upon the following programs or chairs. Other funding efforts and excellent results have been directed toward departmental needs for equipment, supplies and program support. Thousands of dollars, mostly from organizations representing agriculture industries who depend upon the College of Agriculture for research,
employee recruitment, and training have been given for faculty, researchers and advisors in laboratories and extension offices statewide.

The following is a list of our major chairs and endowments and their current status. Each will make a large difference to a department. Together, they will make a remarkable change to the College of Agriculture:

1. **Chair in Agricultural Economics** (original goal $1.25 million)
   
   (a) The Anderson Chair in Agriculture Marketing/Trade Policy currently funded at $980,000

   (b) The Farm Income Enhancement Program  
       goal: $2 million endowment  
       $1 million operating and interest growth  
       $3 million Total  
       Total pledged and received: $1,605,141  
       USDA funds received: $126,000  
       $1,731,141

2. **The Food Industries Center** (original goal $3.2 million, to be revised). Change to departmental status and expansion of current facility requires new research efforts already underway with private industry as well as possible state and federal assistance.

3. **Chair in Food Industries Center** (original goal, $1.25 million)
   
   (a) The Haas Chair, total raised, $980,000

   (b) The Dairy Foods Chair (goal, $1.25 million)  
       Total received $133,733  
       Total pledged $788,210  
       TOTAL $921,943

4. **Chair in Turfgrass Research** (goal, $1.25 million)  
   This program emerged as a priority for the Turfgrass Industry as chemical application problems require research, particularly with current drought conditions. We have a verbal commitment for the entire $1.25 million with all indications that it will be consummated by the end of March. Donor anonymous at this time.

5. **Chair in Biotechnology (Plant)** (goal, $1.25 million)  
   55% Microbiology in the College of Biological Science  
   45% Plant Pathology in the College of Agriculture  
   Major donor source is the DNAP Corporation, funded with expected growth stock in the amount of approximately $300,000.
6. **Endowment for Undergraduate Scholarships and Graduate Fellowships** (original goal, $2 million)
   Received bequest of $1.2 million. We have received a number of $15-25,000 endowed scholarships that have not been collectively credited to this fund. In addition, we are currently underwriting efforts to generate major funding for OARDC graduate fellowships.

7. **The Chadwick Arboretum** (tentative goal, $3 million)
   Board and Steering Committee is in the advanced funding phase under the direction of a part-time development consultant.

8. **The Ohio 4-H Campaign for Excellence** (goal, $25 million)
   See attached 4-H campaign brochure. John Mount is the Steering Committee Chairman. The campaign is nearing pre-campaign major donor solicitation.
APPENDIX XXI

THE OHIO STATE UNIVERSITY
PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 695)
This proposal discusses a $22.9 million bond issue which will enable The Ohio State University to comply with Federally mandated regulations requiring the proper disposal of all cooling oils containing Polychlorinated Biphenyl (PCB) materials. PCB cooling oils are used in most of the electrical distribution equipment installed before the early 1970's at The Ohio State University.

Proceeds from this bond issue will enable the University to:

- Replace 202 distribution class PCB building transformers and 271 power capacitors with environmentally safe units on all campuses. Removal and replacement of the transformers and capacitors will cost $9.7 million or approximately 49% of the project cost.

- Certain electrical distribution system improvements related to, but not directly involving PCB fluids, must be undertaken in order to accommodate the new electrical equipment. This portion of the work is estimated to cost $7.3 million or approximately 37% of the project cost.

- Upgrade or install new major high voltage circuits from the Buckeye Electrical Substation to redistribute campus electrical loads and allow for future system-wide growth. The system upgrade work will cost $3.0 million or approximately 14% of the project cost.

The project will produce two desirable outcomes. The first is that it will permit the University to remain in compliance with Federal environmental regulations by eliminating the use of PCB materials on the Columbus and regional campuses. The second will be to correct certain electrical distribution deficiencies on the Columbus campus, including undersized equipment and cabling, system age, changes in electrical codes and standards, and general electrical system reliability.

University Electrical Distribution System

The Ohio State University owns and operates an underground electrical power distribution system on the Columbus campus which serves approximately 92% of its buildings. Buildings which are not on the University's system (approximately 8%) receive electrical power directly from the utility company.

Electrical energy is fed into the University's distribution system at two locations. The main service point is the Buckeye Substation located on Cannon Drive directly west of Parks Hall. The utility company delivers power at 138,000 volts to this location, transforms it to 13,800 volts through two utility-owned transformers and delivers it to a common electrical bus system for utilization. In FY 1987-88 the University purchased 250,257 megawatt-hours, or approximately 87.7% of its power through this point.

The University has purchased electrical power at the Buckeye Substation since April 29, 1974, under a 25-year contract dated September 22, 1972, as amended October 31, 1979, with the Columbus and Southern Ohio Electric Company (now Columbus Southern Power Company). Provisions are made in the contract which allow for 5-year successive service periods after the
initial 25 years if desirable to both parties. There are also provisions for cancelling the contract while in force. However, neither party has indicated a desire to do so during its first seventeen years of existence.

The electrical rate structure has remained static since the October 31, 1979, amendment. The only changes in the unit price of power has been in the fuel cost adjustment portion of the bill. Fuel cost adjustments are standard provisions in utility contracts which are used by utility companies for passing on basic fuel cost changes that are beyond the company's control. Fuel cost adjustments are usually applicable to all customers regardless of specific contracts or rate classes. The fuel cost adjustment charges have decreased slightly over the past five years and indications are that this component of the unit cost will continue to remain stable for some time barring any unforeseen curtailment of basic fuel supplies.

The McCracken Heating Plant is the other power source for the Columbus campus. Initially this facility served as both the electrical and heating plant for the University community. Beginning sometime during the early to mid 1960's the electrical demands on campus dictated the need for an additional source of power. The role of the McCracken facility naturally shifted from a primary to a standby electrical production center for the campus as electrical loads grew. In FY 1987-88 the McCracken Power Plant produced only 4.7% of the power used on campus. Electricity is produced and distributed at a 4,160 volt level from this location.

Recently a 3,125 KW, 13,800 Volt, back-pressure steam turbine-generator was installed in the McCracken facility under the Coal-Fired Boiler project. The purpose of installing the turbine-generator was that, because of the back-pressure configuration and other operating conditions, electrical power can be produced at less cost than purchasing it through the Buckeye Substation. Under the present costs of fuel and purchased electricity, the University will recover its project cost in approximately 4.5 years in fuel and purchased electricity savings.

Electrical power is distributed to all buildings at either the 13,800 volt (Buckeye) or 4,160/13,800 volt (McCracken) level. Individual building transformers receive the incoming power and reduce it to either a 120/208 volt (normally electrical outlets and lights) or a 277/480 volt (normally large pump or fan motors) service level for use within the building. Many of the building transformers installed before the early 1970's contain PCB cooling fluids.

All of the day-to-day operation/maintenance work and capital repairs/improvements of the high and low voltage systems are the responsibility of the of Physical Facilities Department. Every effort has been made to identify all known PCB installations and include them in the $20.0 million project scope of work. In the event that additional PCB materials are identified during the course of this project, every effort will be made to include them in this work.

During FY 1987-88 the cost of purchasing power through the Buckeye Substation was 37.70 Mills (1 Mill = $0.001) per KWH. The annual cost of operating and maintaining the University's distribution system during the same period increased the overall cost of the power by 2.65 Mills/KWH producing an aggregate distributed cost of 40.35 Mills/KWH.

During the same period the cost of buying electrical power from the utility company at each building under the "small user" Commercial and Industrial GS-1, GS-2 and GS-3 rates was 55.23 Mills/KWH. And this has been limited to only those buildings on the Columbus campus which are isolated from the University's distribution system. If it were the case that all of The Ohio State University Buildings were to pay the small user rate the University's electrical bill during FY 1987-88 would be roughly $4.0 million higher. Clearly, the University benefits from the use of the Buckeye Substation and its associated electrical contract.
PCB Background

Polychlorinated Biphenyl (PCB) compounds were first developed in 1929, as a fire retardant additive for cooling fluids used in transformers, capacitors, switches, and other electrical equipment. PCB’s are inherently stable compounds which have extremely high ignition points and will not decompose under ordinary conditions. At the time they were considered by most as the “perfect” answer to a fire hazard problem in the electrical power industry.

In the early 1970’s, research indicated that a combination of the compound’s inherent stability and its heavily chlorinated makeup caused serious and potentially devastating side effects in animals and humans. In addition, there have been some significant PCB related accidents which have resulted in costly clean-up operations. Perhaps the most widely known accident involves the State Office Building in Binghamton, New York. In 1981, an electrical fire involving PCB transformers contaminated the 20-story office building, rendering it unfit for occupation. Since then the State of New York has spent approximately $33 million for its decontamination. It is reported that this process should be completed within one to two years.

In 1976, Congress ordered that all electrical apparatus containing PCB materials be refilled with a non-toxic cooling fluid. Since then the U.S. Environmental Protection Agency has promulgated a series of regulations to meet this mandate.

The latest regulation was issued on July 17, 1985. This regulation, known as the EPA Fire Rule Amendment, states that the use of PCB filled transformers in buildings which have food service outlets or house foodstuffs must undergo extensive and costly modifications or be eliminated by October 1, 1990. The USEPA generally considers any of the following as having food present in a building:

- A cafeteria
- A canteen
- A vending machine area
- A storage area for foodstuffs
- Personal carry-in foodstuffs

Clearly, all buildings owned by The Ohio State University would satisfy one or more of the above conditions.

COMPLIANCE OPTIONS

Presently, there are only two viable options available for compliance with the Fire Rule Amendment regulation. These options include:

- **Retrofit**: Each transformer with non-toxic cooling fluids.
- **Replace**: All transformers with new non-toxic units.

Retrofit

One method of retrofitting involves a fairly lengthy process of gradually removing the PCB coolant, filtering out the unwanted PCB material, and returning the coolant to the unit. Additional non-PCB coolant is added to restore the original amount of liquid.
After the filtering process, coolant samples are drawn for laboratory analysis. If the analysis proves the PCB levels to be less than 50 PPM, the unit would be considered safe for continued use. If the analysis was greater than 50 PPM, the filtering process would be completed once again.

A second method of retrofilling replaces the entire amount of PCB material with new, non-toxic material. This option is selected when the cooling fluid is almost pure PCB material. The transformer has to be removed from service while this is being done. Normally several fill and drain operations are required in order to flush enough of the PCB material from the unit so that it can meet the 50 PPM standard.

There are at least three drawbacks to the retrofill option. The first is that it is quite difficult to keep a retrofilled unit below some target PCB level. Power transformers consist of a fairly large ferromagnetic core. The core usually is constructed from a series of fairly thin (1/16" thick) iron sheets which are piled on top of one another.

At least two separate copper coils are tightly wound around the ferromagnetic core to form the primary and secondary voltage circuits. The remaining materials in a transformer are basically insulating and supporting materials. These materials are usually insulating paper and maple or oak braces. The entire assembly is then placed in an oil bath container which serves to dissipate unwanted heat buildup during the unit's operation. The container also forms a weather tight seal to protect the assembly from corrosion.

Over a period of time the PCB oil will seep into the inter-lamination spacings of the core. PCB oil will naturally be drawn into these paper and wooden materials as well. Both actions tend to temporarily "lock up" the oil so that it cannot be drained completely from the unit.

During a retrofill operation it is unlikely that these "hidden" pockets will be flushed out. The result is that even though a laboratory test may show compliance with the 50 PPM standard at the time the retrofill operation is completed, it may be the case that small amounts of oil temporarily locked into these pockets could leach out and re-contaminate the unit some months or even years later.

The second drawback to retrofill is that if the University never entirely rids itself of PCB materials and faces the possibility of needing further work to comply with future environmental standards. Most of the evidence to date shows that PCB's are probably dangerous at any level. If that is proven to be the case, it is likely that the present standard of 50 PPM could be cut to 5 PPM, or perhaps lower in the future. If the Ohio State University were to lay plans today for attaining 50 PPM and later finds the standard lowered, a second PCB removal project would have to be initiated. Retrofill costs can run as high as 60% to 70% of the replacement costs.

The third major drawback to the retrofill option is that it would not allow The Ohio State University to renew and/or reconfigure its electrical distribution system on the Columbus campus. Most of the PCB electrical components are at least twenty years old. Some date back to the early post World War II period.

The retrofilling option would not address the problems of age, electrical code compliance, and system reliability, which are becoming major factors in some areas of the Columbus campus. Wholesale replacement, on the other hand, would afford the opportunity to renew much of our electrical system and place The Ohio State University in a good position to support our educational and research activities over the next twenty or more years.
Replacement

The replacement option is the only feasible alternative for addressing the PCB problem. As indicated earlier, this option is more costly than the retrofill option. However, the safety and environmental advantages of attaining PCB-free campuses coupled with the renewing and upgrading of the electrical distribution system at the Columbus campus far outweigh the cost differential implications.

One significant drawback with the replacement option is that each of the affected facilities must be without electrical power for some period of time while old transformers are being removed and the new ones installed. This period of time could be as short as one to two hours to as long as 48 hours depending upon the complexity of the installation.

In most cases, this outage will have only a minor impact on building operations as it will be scheduled during times of very low occupancy. However, there are some cases (continuous research, hospital occupancy, etc.) where lengthy power interruptions will not be tolerated very well. Significant efforts will be made to minimize the impact of this project on those activities through a program of information dissemination throughout all phases of the work and appropriate scheduling of the construction work based on consultation with each of the groups within the targeted buildings. A portion of the proposed bond proceeds have been earmarked for incidental work such as temporary electrical power units, relocation of functions and so forth.

Replacement units will be entirely free of PCB materials. This action precludes any future need for additional PCB programs should the Federal government decide that lower PCB levels are warranted. The replacement option also allows the design engineers an opportunity to review transformer and distribution cabling sizes so that they can be selected to match the present and future electrical needs more closely.

COMPLIANCE AND ENFORCEMENT

The Ohio State University must complete its PCB work no later than October 1, 1990.

Failure to comply with the Federal Fire Rule Amendment order could result in serious civil and/or criminal penalties. Under Section 16 of the Toxic Substance Control Act (TSCA) penalties for non-compliance with the PCB requirements could result in up to $25,000 per day for Civil Violations. TSCA also has provisions for imprisonment of up to one year if a Criminal Violation can be proven.

ECONOMIC ANALYSIS

The PCB Elimination and Electrical System Upgrade Project is a $20.0 million project which covers work at the Columbus and regional campuses. It is proposed that this project be bid as a "turn key" project which would include detailed design engineering, selection of equipment, and new construction.

Generally there is little reduction in operating costs by replacing older electrical equipment with new equipment. Electrical transformation efficiencies will tend to improve somewhat, but the improvement which produces lower operating costs is not expected to be enough to offset the project costs within a reasonable period of time.

All operating units of The Ohio State University including the general fund will experience an
increase in annual expenditures for the debt service of a bond issue in order to comply with the federally mandated PCB regulations and make the proposed upgrades in service.

Financing

As stated earlier, approximately 92% of The Ohio State University's electrical power on the Columbus campus flows through the 138 KV Buckeye Electrical Substation located near Parks Hall or is generated locally in the McCracken Power Plant. The balance of the power is purchased through individual meters at building entrances in much the same way as a homeowner purchases his or her power.

Electrical power which is purchased by The Ohio State University is regulated by Public Utilities Commission of Ohio. In general, it is cheaper for the University to buy electrical power under an approved large user contract through a single point rather than in smaller quantities at multiple points.

As indicated earlier, the aggregate unit cost for electrical power purchased at the Buckeye Substation and distributed over University-owned facilities is 40.35 Mills/KWH. The unit cost for electrical power purchased at the outlying facilities under the "small user" Commercial and Industrial GS-1, GS-2 and GS-3 rates is 55.23 Mills/KWH.

The Ohio State University is proposing to issue fixed rate bonds to fund this project. At the current rate of interest, the annual debt service for a 15 year, 7.1068% average annual interest rate bond would be approximately $2,467,000.

Under that scenario, fixed rate bonds would be issued with serial maturities of from 1 to 15 years with the average life being approximately 9.1 years. The total amount of the bonds to be issued would be $22,918,494. Of that amount, $20,000,000 would be deposited to the construction fund and used to fund the project, $2,466,798 would be deposited in a Bond Debt Service Reserve Account to insure the annual debt service requirements are met. The remaining $451,696 represents the estimated associated Discount, Legal and Issuing expenses. Total interest expenses would be $14,866,526 for a total bond cost of $35,321,222.

As interest rates fluctuate, the above scenario would be impacted. For example, a 25-50 basis point increase in interest rates would equate to an additional cost of $1.2 million to $2.3 million over the life of the bonds.

The Ohio State University is further proposing a program of retiring the bond issue by placing a self-imposed surcharge on the Buckeye Substation unit cost. The surcharge will be phased in over three years. It will effectively represent a 25% increase in the cost of electrical power on the Columbus campus. This increase translates into an equivalent uniform unit cost of 47 to 48 Mills/KWH for electrical power, which is clearly less than the 55.23 Mills/KWH price available to small users.

Although this is a substantial increase, the aggregate (base charge plus surcharge) unit cost is not expected to increase to the point where The Ohio State University would be better served through individual utility company meters located in each facility. On the contrary, the University could continue to enjoy the financial benefits of owning its own power distribution system even with an additional surcharge. An added benefit upon project completion is that a considerable number of transformers (202 out of 270 installations) within the system will be new and more reliable.
A unit cost surcharge based on the electrical usage has been selected for three reasons. First, a consumption-based surcharge more closely resembles a capital recovery fund normally used by regulated utility companies for repairs and improvements. Secondly, the uniform or across-the-board rate would be easy to administer in the University’s business operations. The third reason is that the PCB elimination problem is a University-wide problem and, as such, should be treated in that manner.
APPENDIX XXII

THE OHIO STATE UNIVERSITY
ATHLETIC DEPARTMENT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 696)
## THE STATE UNIVERSITY ATHLETIC DEPARTMENT

Approved Budget - Expenditures 1988-1989

<table>
<thead>
<tr>
<th>A &amp; P Salaries</th>
<th>Class-</th>
<th>Specials</th>
<th>Wages</th>
<th>Benefits</th>
<th>Operations</th>
<th>Equipment</th>
<th>Capital/</th>
<th>Overhead</th>
<th>Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>$276,600.</td>
<td>$64,000.</td>
<td>$276,600.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
</tr>
<tr>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
</tr>
<tr>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
<td>$81,500.</td>
</tr>
</tbody>
</table>

316500 Golf-Women
316501 Golf-Women
316502 Golf-Women
316503 Golf-Women
316504 Golf-Women
316505 Golf-Women
316506 Golf-Women
316507 Golf-Women
316508 Golf-Women
316509 Golf-Women
316510 Golf-Women
316511 Golf-Women
316512 Golf-Women
316513 Golf-Women
316514 Golf-Women
316515 Golf-Women
316516 Golf-Women
316517 Golf-Women
316518 Golf-Women
316519 Golf-Women
316520 Golf-Women
316521 Golf-Women
316522 Golf-Women
316523 Golf-Women
316524 Golf-Women
316525 Golf-Women
316526 Golf-Women
316527 Golf-Women
316528 Golf-Women
316529 Golf-Women
316530 Golf-Women
316531 Golf-Women
316532 Golf-Women
316533 Golf-Women
316534 Golf-Women
316535 Golf-Women
316536 Golf-Women
316537 Golf-Women
316538 Golf-Women
316539 Golf-Women
316540 Golf-Women
316541 Golf-Women
316542 Golf-Women
316543 Golf-Women
316544 Golf-Women
316545 Golf-Women
316546 Golf-Women
316547 Golf-Women
316548 Golf-Women
316549 Golf-Women

$2,060,000. $1,775,500. $276,600. $546,625. $467,400. $3,906,136. $21,550. $7,455,811.
OSU ATHLETIC DEPARTMENT - Approved Budget - 1988-89 - EXPENDITURES - (Concluded)

<table>
<thead>
<tr>
<th>Item</th>
<th>A &amp; F Salaries</th>
<th>Class-ified Special</th>
<th>Wages</th>
<th>Benefits</th>
<th>Operating</th>
<th>Equipment</th>
<th>Capital/Contingency</th>
<th>Overhead</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>316550 Administration-Gen'l</td>
<td>$ 771,750.</td>
<td>$ 588,000.</td>
<td>$ 84,000.</td>
<td>$ 317,310</td>
<td>$ 712,950.</td>
<td>$ 100,000.</td>
<td>$ 2,504,000.</td>
<td>$ 981,520.</td>
<td>$ 6,059,330.</td>
</tr>
<tr>
<td>316551 Publicity</td>
<td>33,800.</td>
<td>1,600.</td>
<td>239,200.</td>
<td>141,300.</td>
<td>199,350.</td>
<td>175,700.</td>
<td>60,000.</td>
<td>425,000.</td>
<td></td>
</tr>
<tr>
<td>316552 Marketing &amp; Promotions</td>
<td>40,150.</td>
<td>4,000.</td>
<td>152,200.</td>
<td>3,000.</td>
<td>199,350.</td>
<td>175,700.</td>
<td>60,000.</td>
<td>425,000.</td>
<td></td>
</tr>
<tr>
<td>316553 Athletic Ticket Office</td>
<td>12,200.</td>
<td>2,200.</td>
<td>154,200.</td>
<td>9,300.</td>
<td>175,700.</td>
<td>175,700.</td>
<td>60,000.</td>
<td>425,000.</td>
<td></td>
</tr>
<tr>
<td>316554 Band</td>
<td>60,000.</td>
<td>20,000.</td>
<td>291,400.</td>
<td>317,310.</td>
<td>981,520.</td>
<td>6,059,530.</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316555 Buckeye Sports Camp</td>
<td>106,000.</td>
<td>22,600.</td>
<td>516,850.</td>
<td>118,400.</td>
<td>771,750.</td>
<td>588,000.</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316556 Clinic</td>
<td>12,200.</td>
<td>2,200.</td>
<td>154,200.</td>
<td>9,300.</td>
<td>175,700.</td>
<td>175,700.</td>
<td>60,000.</td>
<td>425,000.</td>
<td></td>
</tr>
<tr>
<td>316557 Sport Championships</td>
<td>3,200.</td>
<td>118,400.</td>
<td>121,600.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316558 Athletic Plant Ent.</td>
<td>45,700.</td>
<td>30,000.</td>
<td>87,000.</td>
<td>14,600.</td>
<td>176,200.</td>
<td>336,400.</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316556 Stadium Maintenance</td>
<td>24,700.</td>
<td>5,000.</td>
<td>29,700.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316557 North Facility Maint.</td>
<td>223,075.</td>
<td>124,595.</td>
<td>347,670.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316558 Tennis Court Maint.</td>
<td>11,130.</td>
<td>0.00</td>
<td>11,130.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>316559 Jesse Owens Classic</td>
<td>58,000.</td>
<td>1,600.</td>
<td>58,000.</td>
<td>2,200.</td>
<td>336,400.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>TOTALS</td>
<td>$2,962,450.</td>
<td>$884,300.</td>
<td>$382,600.</td>
<td>$1,808,125.</td>
<td>$989,510.</td>
<td>$7,429,261.</td>
<td>$298,045.</td>
<td>$2,504,000.</td>
<td>$1,686,860.</td>
</tr>
</tbody>
</table>

*509,000.00 St. John/Stadium Scoreboards, $1,195,000.00 Multi-Sports Complex, $400,000.00 Cost Containment, and $400,000.00 Small Project Financing.*
## THE OHIO STATE UNIVERSITY
### ATHLETIC DEPARTMENT
### Approved Budget 1988-1989

<table>
<thead>
<tr>
<th>OTHER SPORTS - MEN (316501)</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>052 Tickets - Indiv.</td>
<td>$12,000.00</td>
<td>$12,000.00</td>
</tr>
<tr>
<td>061 Concessions</td>
<td>4,000.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td>062 Guarantees</td>
<td>5,000.00</td>
<td>5,000.00</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>15,000.00</td>
<td>15,000.00</td>
</tr>
<tr>
<td></td>
<td>$36,000.00</td>
<td>$36,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOOTBALL (316502)</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>050 Season Tickets - S&amp;F</td>
<td>$1,934,400.00</td>
<td>$1,934,400.00</td>
</tr>
<tr>
<td>051 Season Tickets - G.P.</td>
<td>3,870,605.00</td>
<td>3,870,605.00</td>
</tr>
<tr>
<td>052 Tickets - Indiv.</td>
<td>1,229,609.00</td>
<td>1,229,609.00</td>
</tr>
<tr>
<td>054 Service Charge</td>
<td>10,000.00</td>
<td>15,000.00</td>
</tr>
<tr>
<td>055 Postage &amp; Handling</td>
<td>45,000.00</td>
<td>45,000.00</td>
</tr>
<tr>
<td>056 Television</td>
<td>750,000.00</td>
<td>800,000.00</td>
</tr>
<tr>
<td>057 Broadcasting</td>
<td>1,134,000.00</td>
<td>602,225.00</td>
</tr>
<tr>
<td>061 Concessions</td>
<td>370,000.00</td>
<td>425,000.00</td>
</tr>
<tr>
<td>062 Guarantees</td>
<td>1,475,000.00</td>
<td>1,200,000.00</td>
</tr>
<tr>
<td>063 Guarantee-Visitor</td>
<td>(2,300,000.00)</td>
<td>(2,300,000.00)</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>4,000.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td></td>
<td>$8,522,614.00</td>
<td>$7,825,839.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BASKETBALL (316503)</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>050 Season Tickets - S&amp;F</td>
<td>$253,810.00</td>
<td>$264,000.00</td>
</tr>
<tr>
<td>051 Season Tickets - G.P.</td>
<td>670,734.00</td>
<td>715,400.00</td>
</tr>
<tr>
<td>052 Tickets - Indiv.</td>
<td>358,000.00</td>
<td>358,000.00</td>
</tr>
<tr>
<td>054 Service Charge</td>
<td>4,000.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td>055 Postage &amp; Handling</td>
<td>6,500.00</td>
<td>6,500.00</td>
</tr>
<tr>
<td>056 Television</td>
<td>700,000.00</td>
<td>750,000.00</td>
</tr>
<tr>
<td>057 Broadcasting</td>
<td>378,000.00</td>
<td>200,750.00</td>
</tr>
<tr>
<td>061 Concessions</td>
<td>70,000.00</td>
<td>90,000.00</td>
</tr>
<tr>
<td>062 Guarantees</td>
<td>10,000.00</td>
<td>20,000.00</td>
</tr>
<tr>
<td>064 Tournament Income Shares</td>
<td>150,000.00</td>
<td>100,000.00</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>7,000.00</td>
<td>10,000.00</td>
</tr>
<tr>
<td></td>
<td>$2,608,044.00</td>
<td>$2,518,650.00</td>
</tr>
</tbody>
</table>
### ICE HOCKEY (316508)

<table>
<thead>
<tr>
<th>Description</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>050 Season Tickets - S&amp;F</td>
<td>$6,000.00</td>
<td>$6,000.00</td>
</tr>
<tr>
<td>051 Season Tickets - G.P.</td>
<td>2,500.00</td>
<td>2,500.00</td>
</tr>
<tr>
<td>052 Tickets - Indiv.</td>
<td>29,500.00</td>
<td>29,500.00</td>
</tr>
<tr>
<td>062 Guarantees</td>
<td>10,000.00</td>
<td>10,000.00</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>2,000.00</td>
<td>2,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>$50,000.00</strong></td>
<td><strong>$50,000.00</strong></td>
</tr>
</tbody>
</table>

### OTHER SPORTS - WOMEN (316526)

<table>
<thead>
<tr>
<th>Description</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>050 Season Tickets - S&amp;F</td>
<td>$3,000.00</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>051 Season Tickets - G.P.</td>
<td>9,000.00</td>
<td>20,000.00</td>
</tr>
<tr>
<td>052 Tickets - Indiv.</td>
<td>58,000.00</td>
<td>58,000.00</td>
</tr>
<tr>
<td>061 Concessions</td>
<td>15,000.00</td>
<td>20,000.00</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>3,000.00</td>
<td>3,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>$88,000.00</strong></td>
<td><strong>$106,000.00</strong></td>
</tr>
</tbody>
</table>

### PARKING (316547)

<table>
<thead>
<tr>
<th>Description</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>051 Season Tickets G.P.</td>
<td>$110,000.00</td>
<td>$110,000.00</td>
</tr>
<tr>
<td>052 Tickets - Indiv.</td>
<td>160,000.00</td>
<td>180,000.00</td>
</tr>
<tr>
<td>067 Settlement-Traf/Park</td>
<td>(70,000.00)</td>
<td>(70,000.00)</td>
</tr>
<tr>
<td></td>
<td><strong>$200,000.00</strong></td>
<td><strong>$220,000.00</strong></td>
</tr>
</tbody>
</table>

### PROGRAMS (316548)

<table>
<thead>
<tr>
<th>Description</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>058 Program Sales</td>
<td>$135,000.00</td>
<td>$135,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>$135,000.00</strong></td>
<td><strong>$135,000.00</strong></td>
</tr>
<tr>
<td>ADMINISTRATION GENERAL (316550)</td>
<td>Approved 1987-88</td>
<td>Approved 1988-89</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>032 Interest Income</td>
<td>$ 200,000.00</td>
<td>$ 400,000.00</td>
</tr>
<tr>
<td>061 Concessions</td>
<td>$ 96,000.00</td>
<td>$ 100,000.00</td>
</tr>
<tr>
<td>065 Facility Rental</td>
<td>$ 50,000.00</td>
<td>$ 140,000.00</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>$ 5,000.00</td>
<td>$ 100,000.00</td>
</tr>
<tr>
<td>068 Scoreboard Advertising</td>
<td>$ 800,000.00</td>
<td>$ 1,135,000.00</td>
</tr>
<tr>
<td></td>
<td>$ 1,151,000.00</td>
<td>$ 1,875,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MARKETING &amp; PROMOTIONS (316552)</th>
<th>Approved 1987-88</th>
<th>Approved 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>067 Miscellaneous</td>
<td>$ 125,000.00</td>
<td>$ 200,000.00</td>
</tr>
<tr>
<td></td>
<td>$ 125,000.00</td>
<td>$ 200,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CLINICS (316556)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>073 Fees &amp; Memberships</td>
<td>$ 50,000.00</td>
<td>$ 75,000.00</td>
</tr>
<tr>
<td></td>
<td>$ 50,000.00</td>
<td>$ 75,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUCKEYE SPORTS CAMP (316557)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>073 Fees &amp; Memberships</td>
<td>$ 355,000.00</td>
<td>$ 650,000.00</td>
</tr>
<tr>
<td></td>
<td>$ 355,000.00</td>
<td>$ 650,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPORTS CHAMPIONSHIPS (316558)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>052 Tickets - Individual</td>
<td>$ 20,000.00</td>
<td>$ 31,000.00</td>
</tr>
<tr>
<td>058 Programs</td>
<td>$ 1,000.00</td>
<td>$ 1,000.00</td>
</tr>
<tr>
<td>061 Concessions</td>
<td>$ 3,000.00</td>
<td>$ 3,000.00</td>
</tr>
<tr>
<td>067 Miscellaneous</td>
<td>$ 33,000.00</td>
<td>$ 37,000.00</td>
</tr>
<tr>
<td>073 Entry Fees</td>
<td>$ 3,000.00</td>
<td>$ 3,000.00</td>
</tr>
<tr>
<td></td>
<td>$ 60,000.00</td>
<td>$ 75,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GOLF COURSE-OPER (316571)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>073 Fees &amp; Memberships</td>
<td>$ 862,869.00</td>
<td>$ 908,305.00</td>
</tr>
<tr>
<td>075 Alumni Pool</td>
<td>$ 900.00</td>
<td>$ 900.00</td>
</tr>
<tr>
<td></td>
<td>$ 863,769.00</td>
<td>$ 917,305.00</td>
</tr>
<tr>
<td>GOLF COURSE-PRO SHOP (316572)</td>
<td>Approved 1987-88</td>
<td>Approved 1988-89</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Merchandise Sales</td>
<td>$141,177.00</td>
<td>$145,412.00</td>
</tr>
<tr>
<td>Rentals</td>
<td>151,425.00</td>
<td>166,725.00</td>
</tr>
<tr>
<td>Instruction</td>
<td>9,265.00</td>
<td>15,000.00</td>
</tr>
<tr>
<td>Miscellaneous Sales</td>
<td>67,000.00</td>
<td>75,000.00</td>
</tr>
<tr>
<td>Total</td>
<td>$368,867.00</td>
<td>$402,137.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GOLF COURSE-RESTAURANT (316573)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchandise Sales</td>
</tr>
<tr>
<td>Food Sales</td>
</tr>
<tr>
<td>Beverage Sales</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ICE RINK (316575)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tickets</td>
</tr>
<tr>
<td>Merchandise Sales</td>
</tr>
<tr>
<td>Rentals</td>
</tr>
<tr>
<td>Instruction</td>
</tr>
<tr>
<td>Miscellaneous</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOWL GAMES (316590)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscellaneous</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JESSE OWENS CLASSIC (316591)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tickets</td>
</tr>
<tr>
<td>Concessions</td>
</tr>
<tr>
<td>Miscellaneous</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

---

$16,047,603.00  $16,625,931.00
APPENDIX XXIII

UNIVERSITY'S FINANCIAL REPORT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 696)
INTRODUCTION

Good morning President Jennings, Chairman Kessler, and members of the Finance Committee and Board of Trustees. It is my pleasure to present to you the University's financial report for the fiscal year ended June 30, 1988. It is also a challenge to summarize the financial results of the activity of this complex billion dollar organization in this brief format. Therefore, my comments are limited to the highlights which appear within these financial statements.

OVERVIEW

The 1988 financial statements reflect the results of investing in the future of the University, its faculty, staff and students.

The University's fiscal and human resources were called into action as we completed the Undergraduate Curriculum Review for the Arts and Sciences Colleges, implemented the University-wide Affirmative Action Plan, competed for more research dollars, funded the Early Retirement Incentive Program and weathered the weakened financial market.

While we achieved record growth in private support, minimal increases in State support forced undesirable tuition and fee increases upon our students.

To see the financial impact of these and other factors, we need to review two basic financial statements: The Balance Sheet and the Statement of Changes in Revenues, Expenditures and Fund Equities.

First we will look at a few key highlights of each financial statement. Then we'll look more closely at each fund group on both statements.

The Balance Sheet (page 2 of the Auditor's Report) reflects the financial results of all University activities. On an All-Funds basis:

Assets total $1.9 billion. This represents a $94.5 million, 5.3 percent, net increase over 1987. Major components of the increase include a $119.5 million, 10.9 percent growth in the Investment in Plant, offset by a $17.6 million, 3.3 percent decline in total Cash and Investments.

Liabilities total $385.2 million, representing a $32.2 million, 9.4 percent increase over 1987. The major increase was in Current Funds, where Accounts Payable and Accrued Liabilities increased $27.2 million, 23.2 percent.

Equity totals $1.5 billion, a $61.3 million, 4.3 percent increase over 1987. The major components of the increase include $90.6 million in Plant Funds, and $21.3 million in Endowment and Annuity Funds, offset by a $52.0 million decrease in Current Funds.

Now, let's review the Statement of Revenues, Expenditures and Changes in...
Fund Equities (page 3 of the Auditor's Report). On an All-Funds basis:

Revenues and other additions total $1.2 billion. This represents an increase of $17.6 million, or 1.5 percent over 1987.

Expenditures and Other Deductions total $1.1 billion. This represents a $41.9 million, or 4.0 percent increase over 1987.

To understand the details behind these revenues and expenditures, and their impact on the bottom-line, it is best to review each fund group separately.

CURRENT FUNDS

For the first time since fiscal year 1982, the cost of current operations exceeded current revenues. The University was forced to rely heavily on existing fund equity to meet current demands, resulting in a $52.0 million decline in Current Funds Equity. Three major factors contributed to the decrease:

1. The Early Retirement Incentive Programs added $20.8 million, 2.1 percent, to expenditures. Nearly 1,400 faculty and staff have participated in these programs to date, at a total one-time cost of approximately $64.2 million. Compared to annual salary costs of $50.1 million for these retirees, the plans appear to be cost-effective.

2. $23.5 million allocated for debt service payments was transferred from Current Unrestricted Funds to Plant Funds Debt Service. This reflects and adjustment from prior years.

3. To help offset minimal increases in State support, colleges and administrative support areas were required to enhance resource management of all resources, and make use of contingency funds, for one-time needs.

Now, to review the other sources and uses of Current Funds:

There are three major fund groups within this category: Educational & General, Auxiliary Enterprises, and Hospitals.

Current Funds Revenues and Other Additions total $989.3 million, an increase of $51.4 million, 5.5 percent, over 1987. Major increases include:

Educational and General, which total $705.1 million, an increase of $48.4 million, 7.4 percent over 1987. This is comprised of:

- Tuition, fees and other student charges, increased $14.8 million, 11.4 percent;
- Private support, increased $14.9 million, 27.3 percent;
Investment income and realized gains, increased $2.3 million, 10.2 percent.

Auxiliary Enterprises, where Revenues and Other Additions total $82.2 million, increased $3.5 million, 4.4 percent over 1987.

Hospitals, where Revenues and Other Additions total $202.1 million, reflect a $0.5 million, 0.2 percent decrease from 1987.

Current Funds, Expenditures and Other Deductions total $979.6 million, an increase of $62.9 million, 6.9 percent, over 1987. Major increases include:

Separately budgeted research expenditures, total $120.5 million, increased $21.3 million, 21.5 percent, resulting from increased competitiveness of faculty in attracting sponsored research support;

Scholarship and fellowship expenditures, total $30.1 million, increased $3.6 million, 13.7 percent, reflecting the increased use of financial aid due to the 10.9 percent resident tuition increase necessitated by low State support

Instruction and departmental research, total $309.3 million, increased $21.7 million, 7.5 percent;

Academic support totals $66.6 million, increased $3.5 million, 5.6 percent.

Auxiliary Enterprises, where Expenditures and Other Deductions total $73.7 million, increased $1.3 million, 1.9 percent over 1987.

Hospitals, where Expenditures and Other Deductions total $198.6 million, and increased $4.3 million, 2.2 percent.

The final component to impact Current Funds is Transfers. The Mandatory Transfers reflect funds set aside by the University and Auxiliary Enterprises for principal and interest payments on long-term debt.

The Non-mandatory Transfers include various transfers to fund capital improvements ($17.9 million), as well as the $23.5 million transfer mentioned earlier, to move funds allocated for debt service out of Current Funds and into debt service reserve accounts. The end result is a $50.2 million decline in Current Funds Equity.

This concludes the discussion of Current Funds.
The balance sheet for Loan Funds remained essentially at 1987 levels, and includes $38.1 million of loans outstanding, supported by $41.8 million of U.S. government grants. The student loan default rate continues to be well below the national average. This reflects only a small part of the total financial aid provided to our students. During fiscal year 1988, 38,200 students received one or more forms of financial aid from Federal, State, University and local sources. The aid, totalling $141.8 million includes student loans, grants, scholarships, and on-campus employment.

ENDOWMENT AND ANNUITY FUNDS

The market value of the endowment increased $6.4 million. Total new additions to Endowments were $19.4 million. Total return on the endowment was 0.4 percent as compared to -7.0 percent for the S&P 500. Gross Endowment income earned was $12.6 million as compared to $9.6 million in 1987.

PLANT FUNDS

Investment in Plant continues to grow. A net $119.5 million was added to the book value, including: $50.8 million in buildings; $40.7 million in moveable equipment and furniture; $4.6 million in library books; $3.3 million in land and improvements; $20.1 million in construction in progress. Plant-related debt of $10.6 million was retired, leaving a balance of $181.8 million.

CONCLUSION

Both Moody's and Standard & Poor's have taken the opportunity to review this financial information. To date, our bond ratings remain unchanged (AA-- and A1). We believe this is a recognition by the financial community of the continued overall strength of the University.

In terms of the current fiscal year, the Early Retirement Incentive Program, minimal increases in State support, the commitment to minimize tuition increases, and lean operating budgets for Auxiliary Enterprises and the Hospital continue. The financial results will be similar to this past year as the University continues to utilize Current Funds Equities to bridge the gap between Current Funds Revenues and Expenditures. The opportunity to reverse this trend lies in the passage, by the State, of a 1990-1991 biennial operating budget for higher education that recognizes the current and future cost of a quality education and educational system for Ohio.
APPENDIX XXIV

1988-89 SECOND QUARTER CURRENT FUNDS BUDGET REPORT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 696)
## Summary of Proposed Resources
(In Thousands of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1988-89</th>
<th>Estimated 1988-89</th>
<th>Increase</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$420,590</td>
<td>$420,950</td>
<td>$360</td>
<td>.1%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>322,400</td>
<td>323,260</td>
<td>860</td>
<td>.3%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>192,820</td>
<td>198,320</td>
<td>5,500</td>
<td>2.9%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$935,810</td>
<td>$942,530</td>
<td>$6,720</td>
<td>.7%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24,240</td>
<td>24,330</td>
<td>90</td>
<td>.4%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>30,110</td>
<td>30,110</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$990,160</td>
<td>$996,970</td>
<td>$6,810</td>
<td>.7%</td>
</tr>
<tr>
<td></td>
<td>Budgeted 1988-89</td>
<td>Estimated 1988-89</td>
<td>$ Increase</td>
<td>% Increase</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$420,590</td>
<td>$420,590</td>
<td>$0</td>
<td>0%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>322,400</td>
<td>323,250</td>
<td>850</td>
<td>0.3%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>192,820</td>
<td>198,320</td>
<td>5,500</td>
<td>2.9%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$935,810</td>
<td>$942,160</td>
<td>$6,350</td>
<td>0.7%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td>23,920</td>
<td>24,000</td>
<td>80</td>
<td>0.3%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>30,110</td>
<td>30,110</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$989,840</td>
<td>$996,270</td>
<td>$6,430</td>
<td>0.6%</td>
</tr>
</tbody>
</table>
THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET
2ND QUARTER REPORT

All Funds Resources Summary
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1988-89</th>
<th>Budgeted 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$247.97</td>
<td>$0.00</td>
<td>$35.61</td>
<td>$283.56</td>
<td>$284.72</td>
</tr>
<tr>
<td>Student Fees</td>
<td>140.14</td>
<td>5.41</td>
<td>.00</td>
<td>143.55</td>
<td>144.55</td>
</tr>
<tr>
<td><strong>Other Resources</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>16.67</td>
<td>.00</td>
<td>79.50</td>
<td>96.17</td>
<td>94.03</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>.61</td>
<td>.00</td>
<td>13.65</td>
<td>14.06</td>
<td>12.05</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>.70</td>
<td>.00</td>
<td>11.86</td>
<td>12.56</td>
<td>12.44</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>3.73</td>
<td>.00</td>
<td>50.00</td>
<td>55.73</td>
<td>51.00</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>1.40</td>
<td>.00</td>
<td>7.70</td>
<td>9.10</td>
<td>9.10</td>
</tr>
<tr>
<td>Department and University Services</td>
<td>.41</td>
<td>27.02</td>
<td>.00</td>
<td>27.43</td>
<td>27.43</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>.02</td>
<td>81.33</td>
<td>.00</td>
<td>81.35</td>
<td>82.09</td>
</tr>
<tr>
<td>Hospital Sales &amp; Services</td>
<td>.00</td>
<td>201.35</td>
<td>.00</td>
<td>201.35</td>
<td>201.35</td>
</tr>
<tr>
<td>Other Sources</td>
<td>9.50</td>
<td>8.15</td>
<td>.00</td>
<td>17.65</td>
<td>17.05</td>
</tr>
<tr>
<td>Total Other Resources</td>
<td>$32.84</td>
<td>$317.05</td>
<td>$162.71</td>
<td>$513.40</td>
<td>$506.54</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$420.95</td>
<td>$323.26</td>
<td>$198.32</td>
<td>$942.53</td>
<td>$935.81</td>
</tr>
</tbody>
</table>

| **Regional Campuses**          |               |                     |                  |                  |                  |
| State Appropriations           | 11.91         | .00                 | .02              | 11.93            | 12.18            |
| Student Fees                   | 8.91          | .25                 | .00              | 9.16             | 8.82             |
| Other Resources                | .54           | .87                 | 1.83             | 3.24             | 3.24             |
| **Total Regional Campuses**    | $21.36        | $1.12               | $1.85            | $24.33           | $24.24           |

| **OA/RC**                      |               |                     |                  |                  |                  |
| State Appropriations           | .00           | .00                 | 19.54            | 19.54            | 19.54            |
| Federal                        | .00           | .00                 | 6.65             | 6.65             | 6.65             |
| All Other                      | .00           | 1.60                | 2.32             | 3.92             | 3.92             |
| **Total OA/RC**                | $0.00         | $1.60               | $28.51           | $30.11           | $30.11           |

<p>| <strong>Total University</strong>           |               |                     |                  |                  |                  |
| State Appropriations           | 259.68        | .00                 | 55.17            | 315.05           | 316.44           |
| Student Fees                   | 149.05        | 5.66                | .00              | 154.71           | 155.37           |
| Other Resources                | 33.38         | 320.32              | 173.51           | 527.21           | 520.35           |
| <strong>Total University</strong>           | $442.31       | $325.98             | $228.68          | $996.97          | $990.16          |</p>
<table>
<thead>
<tr>
<th>All Funds Uses Summary</th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1988-89</th>
<th>Budgeted 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>419.65</td>
<td>32.43</td>
<td>184.13</td>
<td>636.21</td>
<td>630.71</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>0.00</td>
<td>37.45</td>
<td>0.00</td>
<td>37.45</td>
<td>36.42</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>0.00</td>
<td>17.10</td>
<td>3.60</td>
<td>20.70</td>
<td>20.70</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>0.94</td>
<td>29.90</td>
<td>0.00</td>
<td>30.84</td>
<td>31.02</td>
</tr>
<tr>
<td>Total Auxiliaries</td>
<td>9.94</td>
<td>84.45</td>
<td>33.60</td>
<td>88.99</td>
<td>88.14</td>
</tr>
<tr>
<td>University Hospitals</td>
<td>0.00</td>
<td>266.37</td>
<td>10.59</td>
<td>216.96</td>
<td>216.96</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>420.59</td>
<td>323.25</td>
<td>198.32</td>
<td>942.16</td>
<td>935.81</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>4.75</td>
<td>.78</td>
<td>.38</td>
<td>5.91</td>
<td>5.83</td>
</tr>
<tr>
<td>Lima Campus</td>
<td>4.48</td>
<td>.12</td>
<td>.43</td>
<td>5.03</td>
<td>5.03</td>
</tr>
<tr>
<td>Mansfield Campus</td>
<td>4.04</td>
<td>.08</td>
<td>.36</td>
<td>4.48</td>
<td>4.53</td>
</tr>
<tr>
<td>Marion Campus</td>
<td>3.60</td>
<td>.03</td>
<td>.42</td>
<td>4.05</td>
<td>3.88</td>
</tr>
<tr>
<td>Newark Campus</td>
<td>4.16</td>
<td>.12</td>
<td>.26</td>
<td>4.54</td>
<td>4.66</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td>21.03</td>
<td>1.12</td>
<td>1.05</td>
<td>24.00</td>
<td>23.92</td>
</tr>
<tr>
<td>OARDC</td>
<td>0.00</td>
<td>1.60</td>
<td>28.51</td>
<td>30.11</td>
<td>30.11</td>
</tr>
<tr>
<td><strong>Total Uses</strong></td>
<td>441.62</td>
<td>325.97</td>
<td>228.68</td>
<td>996.27</td>
<td>989.84</td>
</tr>
</tbody>
</table>
Distribution of 1988-89 Resources
Central Campus, Regional Campuses & OARDC
(In Thousands of Dollars)

<table>
<thead>
<tr>
<th>Source</th>
<th>All Funds</th>
<th>Percent of Total</th>
<th>Unrestr. General(4)</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>$315,050</td>
<td>31.6%</td>
<td>$259,880</td>
<td>58.8%</td>
</tr>
<tr>
<td>Federal Grants &amp; Contracts</td>
<td>102,820</td>
<td>10.3%</td>
<td>16,670</td>
<td>3.8%</td>
</tr>
<tr>
<td>Other Government Sources</td>
<td>26,620</td>
<td>2.7%</td>
<td>1,110</td>
<td>.3%</td>
</tr>
<tr>
<td>Student Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructional (1)</td>
<td>149,050</td>
<td>15.0%</td>
<td>149,050</td>
<td>33.7%</td>
</tr>
<tr>
<td>Non-Credit Instruction</td>
<td>5,660</td>
<td>.6%</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td>Hospitals Sales / Services</td>
<td>201,350</td>
<td>20.2%</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td>Other Sales / Services (2)</td>
<td>108,780</td>
<td>10.9%</td>
<td>430</td>
<td>.1%</td>
</tr>
<tr>
<td>Private Gifts &amp; Grants</td>
<td>53,730</td>
<td>5.4%</td>
<td>3,730</td>
<td>.8%</td>
</tr>
<tr>
<td>Endowment</td>
<td>9,100</td>
<td>.9%</td>
<td>1,400</td>
<td>.3%</td>
</tr>
<tr>
<td>Other Sources (3)</td>
<td>24,810</td>
<td>2.5%</td>
<td>10,040</td>
<td>2.3%</td>
</tr>
<tr>
<td>Total</td>
<td>$996,970</td>
<td>100.0%</td>
<td>$442,310</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

(1) Includes instructional, general, non-resident, and misc. other fees.
(2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
(3) Includes temporary investments, prior years' earnings, rental income, etc.
(4) Excludes all earnings and restricted funds.
APPENDIX XXV

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
OCTOBER-DECEMBER 1988

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees February 3, 1989
(See page 697)
During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 30 waivers of competitive bidding requirements. The annual purchases authorized by the waivers total approximately $841,700.00. The purchases included:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
<th>Waivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructional and Research Equipment</td>
<td>$258,893</td>
<td>(7 waivers)</td>
</tr>
<tr>
<td>Instructional and Research Services</td>
<td>147,700</td>
<td>(8 waivers)</td>
</tr>
<tr>
<td>Hospital Equipment and Services</td>
<td>252,600</td>
<td>(6 waivers)</td>
</tr>
<tr>
<td>Travel, Accommodations, and Catering</td>
<td>119,988</td>
<td>(6 waivers)</td>
</tr>
<tr>
<td>Artists' Services</td>
<td>38,500</td>
<td>(2 waivers)</td>
</tr>
<tr>
<td>Research Park Construction Drawings</td>
<td>24,000</td>
<td>(1 waiver)</td>
</tr>
</tbody>
</table>
APPENDIX XXVI

EASEMENT
BUCKEYE RURAL ELECTRIC CO-OPERATIVE, INC.

Adopted by the Board of Trustees February 3, 1989
(See page 725)
Buckeye Rural Electric Co-operative, Inc. Easement at the Jackson County Branch of the Ohio Agricultural Research and Development Center

Office of Business and Administration
February 3, 1989
APPENDIX XXVII

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

March 17, 1989
P. David Myerowitz, M.D.

P. David Myerowitz, an internationally known cardiac surgeon, is the Karl P. Klassen Professor and chief of thoracic and cardiovascular surgery at The Ohio State University. He established the University Hospitals' heart transplant program in 1986 after coming to Ohio State from the University of Wisconsin, where he founded and headed a similar program.

Also an associate professor of surgery and of internal medicine, Myerowitz performed the first heart transplant in central Ohio in July 1986. Since that time, more than three dozen additional patients have undergone heart transplant surgery at Ohio State.

He holds bachelor's and medical degrees from the University of Maryland and a master's degree in surgery from the University of Minnesota. After completing his residency program at Minnesota, he was awarded a two-year fellowship in cardiothoracic surgery at the University of Chicago Hospital. Myerowitz also served in the military for two years as a clinical associate for the United States Public Health Service.

At Ohio State, he is presently chair of the Transplant Patient Selection Committee, as well as a member of the Critical Care Policy and SKYMED Medical Advisory committees. He is on the board of directors of several organizations, including Lifeline of Ohio Organ Procurement and the Heart Transplant Foundation.

More than fifty of his research papers have been published, and he has contributed chapters to numerous text-books. Myerowitz shared his administrative expertise in the book *Heart Transplantation*, which was published in 1987 and was the first guide to organizing a heart transplant program. He was co-editor of the 1985 book *Surgical Clinics of North America: Latest Advances in Cardiac Surgery*. His work has been presented at conferences, seminars, and symposia across the country and throughout Europe. We are delighted to welcome this distinguished member of the medical community as speaker for the University's 307th commencement.
Recipient of Honors

Andrew W. Marshall
Doctor of Science

Andrew W. Marshall has shaped American defense policy for almost forty years. The founder of Net Assessment in the Office of the Secretary of Defense, he and his staff evaluate American military resources in comparison to the capabilities of potential adversaries. He has served as director of Net Assessment for fifteen years.

Marshall received his bachelor's degree from Wayne University and his master's degree from the University of Chicago. He began his career with the RAND Corporation in Santa Monica, California. During his twenty-three years there, he rose to the position of director of strategic studies and laid the intellectual foundation of the United States' strategic policy of deterrence.

In 1972, Henry Kissinger recruited him onto the National Security Council staff, and in 1973, Marshall moved to the Department of Defense to establish the Office of Net Assessment. Since that time, he has served five secretaries of defense, four presidents, and both political parties with non-partisan professionalism.

While the content of much of his work is classified, the quality of his contributions is widely known. The hallmark of Marshall's work has been his insistence in using the widest possible approach to his investigation. He is a vigorous proponent of studying the past to shed light on the future. In the last decade, Marshall has pioneered the application of historical analysis to contemporary defense problems. He also has served as a liaison between academia and the military, as he draws from academic disciplines and traditions to clarify public policy. His scholarly approach to defense policy—an approach based on evidence and logic instead of politics and ideologies—has provided objectivity in an often emotional arena. The Ohio State University is proud to honor him for his vision, his wisdom, and his decades of accomplishment that will guide our nation for generations to come.
Jeffrey H. Cinnamond, Lakewood, B.A., M.A., M.A. (Bowling Green State University); Education
Dr. Robert Silverman

Frances Hamilton Couzon,
Lincolnton, NC; B.S. (Mercer University);
M.A. (Western Carolina University);
Education
Dr. William Heward

Chikako Inoue Cox, Osaka, Japan; B.A., M.A.; Education
Dr. Susan J. Sears

Charlene Marie Czernek, Toledo, B.A. (The University of Toledo); M.A. (Bowling Green State University); Education
Dr. Roger Cunningham

Hashem Dezhabakhsh, Fars, Iran; B.S. (Shiraz University); M.A. (University of Akron); Economics
Dr. Jerry Thursby

Chester Daniel Dilday, Columbus, B.A., M.S.W.; Social Work
Dr. Keith M. Kilty

Tapu Ashis Dutta-Choudhury,
Columbus, B.A. (University of Pennsylvania); M.S. (Case Western Reserve University); Pharmacology
Dr. Ralph E. Stephens, Dr. Daniel Cour

Uba Satch Eijke, Umunhua, Imo, Nigeria; LL.B. (Honors), M.S. (The University of Lagos); B.L. (Nigeria Law School); M.A.; History
Dr. K. Austin Kehr

Kamyar Enshayan-L, Babol, Iran;
B.S.E.E., M.S. - Agricultural Engineering
Dr. Ted H. Shott

Reginald Fennell, Goldsboro, NC; B.A., M.Ed. (North Carolina State University at Raleigh); M.A.; Health, Physical Education and Recreation
Dr. R. Cory Bates

Scott Alden Fisher, Delaware, B.A., M.A. (University of California at Santa Barbara); Classics
Dr. Jane Snyder

J. Michael Geary, Dunbar, WV; B.S. (Davis and Elkins College); M.S.W. (West Virginia University); Social Work
Dr. Robert Ryan

John Howard Gibson, London, England; B.Ed. (St. Luke's College); M.S. (Marshall University); Health, Physical Education and Recreation
Dr. Seymour Kirenman

Jeongmyung Gim, Seoul, South Korea; B.A. (Seoul National University); M.A.; Health, Physical Education and Recreation
Dr. Seymour Kirenman

Michael J. Girard, Santa Rosa, CA; B.S., B.S. (University of California at Santa Cruz); Computer and Information Science
Dr. Bruce W. Werde

Mary Melinda Gugelchuk, South Point;
B.S.; Chemistry
Dr. Leo A. Paquette

Laurie Porter Gunderson, Cincinnati; B.S. (The University of Evansville); M.S. (The University of Cincinnati); Nursing
Dr. Kathleen Stone

Karl William Haider, Altoona, PA; B.S. (Juniata College); M.S., Chemistry
Dr. Mathew Platz

Gwang-Jub Han, Seoul, South Korea; B.A. (Hankuk University of Foreign Studies); M.A. (Seoul National University); M.A.; Communication
Dr. Joseph M. Foley

David Roger Haumann, Columbus, B.S. (Brown University); M.S.; Computer and Information Science
Dr. Charles A. Curtis

Ahmed Ali Hayajneh, Jordan; B.S. (Helwan University); M.A. (Michigan State University); Health, Physical Education and Recreation
Dr. Barbara Nelson

Shanda Kattinger Hebbie, Hyderabad, India; B.S. (Osmania University); M.S. (Andhra University); Molecular Genetics
Dr. P. S. Perlman

Peter William Hoffman, Baltimore, MD; B.S. (Saint Lawrence University); M.S.; Molecular Genetics
Dr. Phillip Perlman

I Min Hu, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (Stanford University); Engineering Mechanics
Dr. Carl H. Poplar

Tsong-Chyi Hwang, Taiwan, R.O.C.; B.A. (National Chung-Hsing University); M.S.; Agricultural Economics and Rural Sociology
Dr. Donald Larson

Moon Hyuk Im, Seoul, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); Engineering Mechanics
Dr. Sander H. Advani, Dr. June K. Lee

Anita Patricia Jackson, Zanesville, B.S.
(M.A. (Ohio University); Education
Dr. Susan Sears

Young-Deok Jeon, Taegu, South Korea; B.A. (Korea University); Economics
Dr. Eduard J. Ray

Guochen Jia, Shunyi, Hubei, P.R.C.; B.S. (Wuhan University), Chemistry
Dr. Devon W. Mork, Dr. Andrew Wozueki
Tony Ramos Joaquim, Newark, NJ; B.A. (Rutgers University); M.A.; Plant Pathology
Dr. Randall C. Roue

Mary Charlotte Johnson, Columbus, B.S. (Kent State University); M.A.; Education
Dr. Maia Fank Mertz

Diane Ruth Karus, Chicago, IL; B.S. (Loyola University); Physiology
Dr. Albert L. Kunz

Billie Louise Kerans, Columbus, B.S., M.S. (Kent State University); Zoology
Dr. Peter Chesonos, Dr. Roy Stein

Min-Young Kim, Seoul, South Korea; B.S. (Ewha Woman's University); M.S.; Biochemistry
Dr. David H. Ives

Alexander Charles Kirlik, Bay Village; B.S.I.S.E., M.S.; Industrial and Systems Engineering
Dr. Richard A. Miller

Sehoon Ko, Seoul, South Korea; B.A. (Yonsei University); M.A. (Seoul National University); M.A. (Syracuse University); Political Science
Dr. Richard Gunther

Bruce Edward Kreischer, Westerville, B.S. (University of Cincinnati); M.S. (Iowa State University); Chemical Engineering
Dr. Liang-Shih Fan

Sampath Krishnaswamy, Tamlindu, India; B.E. (Indian Institute of Science); B.S. (A.M. Jain College); M.E. (Regional Engineering College); Welding Engineering
Dr. William A. Baselack

Jong-Won Kwon, Seoul, South Korea; B.S. (Hanyang University); M.S.; Metallurgical Engineering
Dr. George R. St. Pierre

Ik-Mo Lee, Inchon, South Korea; B.S., M.S. (Seoul National University); Chemistry
Dr. Andrew Wojcik

Seong-Rae Lee, Dae-Jeon, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); M.S.; Mechanical Engineering
Dr. K. Srinivasan

Tae Soo Lee, Kyungbuk, South Korea; B.S., M.S. (Seoul National University); Engineering Mechanics
Dr. Sander H. Adami, Dr. June K. Lee

David Alan Leiby, Easton, PA; B.S. (Lafayette College); M.S. (Rutgers University); M.S.; Zoology
Dr. Peter Pappas

Mariah T. Liggett, Marysville; B.A. (Slippery Rock University); M.A.; Health, Physical Education and Recreation
Dr. William Murras, Dr. Robert L. Bartels

Melly Lin, Taipei, Taiwan, R.O.C.; B.S. (Cheng-Chi University); M.S.; Statistics
Dr. A. Oren

Alison S. Linn-Mowery, Delaware; B.S.; M.A.; Psychology
Dr. Henry Leland

Mark Owen Lombardi, Smithfield, R.I.; B.A. (Purdue University); M.A.; Political Science
Dr. James E. Herf

Uma Prasad Mahanta, West Bengal, India; B.S. (University of Calcutta); M.S.; Physics
Dr. Kenneth D. Lane

Timothy Jay McNeish, Zanesville; B.S.; M.A.; Education
Dr. Jack A. Nagler

Robert Brian McWhirter, Murrysville, PA; B.A. (College of Wooster); M.S.; Chemistry
Dr. Michael H. Klapper

Cecil Michael Miller, Thornville, B.S. (Ohio University); M.A. (Western Kentucky University); Psychology
Dr. John C. Gibbs

Joseph William Mitchell, Boardman, B.S.; Physics
Dr. Thomas A. Romanowski

Lenore Booth Morse, Middletown, VT; B.A. (University of Connecticut); M.Ed. (University of Vermont); M.A.; Education
Dr. Victor M. Rentel

Siddhartha Mukherjee, Bombay, India; B.Sc. (University of Bombay); Physics
Dr. David O. Edwards

Norma Jean Mulline, Columbus; B.S.Ed., M.Ed. (Xavier University); Education
Dr. Sandra McCormick

Cheryl McCravy Nappler, Saint Louis, MO; B.S.Ed. (Central Missouri State University); M.Ed.; Education
Dr. James Wightl

Michael L. Nortman, Bayonne, NJ; B.A. (University of Pennsylvania); M.A. (Marshall University); Education
Dr. Ioue Cruz, Dr. Loren Stuhl

Jeffrey Michael Novak, Roselle, NJ; B.S. (Delaware Valley College); M.S. (Iowa State University); Agronomy
Dr. Neil Smeck

Patricia Pacheco-Jara, Concepcion, Chile; Licenciado en Biologia (Universidad de Concepcion); Botany
Dr. Tod F. Stuessy

Lucinda Ann Pfafzer, Batavia, NY; B.S. (Ithaca College); M.A.; Health, Physical Education and Recreation
Dr. Donald D. Harper

Karen Viola Pizzimenti, Niagara Falls, NY; B.S. (State University of New York at Buffalo); M.S. (Indiana State University); Home Economics
Dr. Marion L. Cremer

Thomas Leslie Prince, Dover; B.S.Agr., M.S.; Horticulture
Dr. Harry Tayama, Dr. John Graber

William Francis Puech III, Westchester; B.S., M.S.; Computer and Information Science
Dr. B. Chandrasekaran

Yingyong Qi, Tianjin, P.R.C.; B.S. (University of Science and Technology of China); M.S. (Institute of Acoustics); Speech and Hearing Science
Dr. Robert A. Fox

Brian Walter Randolph, Greenville, B.S., M.S. (University of Cincinnati); Civil Engineering
Dr. Tien Hsing Wu

Mohammed Saleh Resayes, Riyadh, Saudi Arabia; Diploma (Art Education Institute); B.A. (Helwan University); M.A.; Art Education
Dr. Kenneth Marrots

John Walter Reveley, Reynoldsburg; B.S. (Rutgers University); M.S., Physiology
Dr. Jack Boulant

Mark Alan Rush, Columbus; B.A., B.Mus., M.Mus.; Music
Dr. David Butler

Chih Hao Shen, Taiwan, R.O.C.; B.S. (National Cheng Kung University); M.S.; Metallurgical Engineering
Dr. Paul Sheumon

Wunjang K. Shieh, Taiwan, R.O.C.; B.S.E.E. (Chung-Yuan University); M.S.E.E. (National Taiwan University); Electrical Engineering
Dr. Jogikaal M. Jagadeesh

Gideon Ngaka Shongwe, Swaziland; B.S. (Western Illinois University); M.S. (University of Guelph); Agronomy
Dr. Samuel Trains, Dr. Terry Logan

Gyung-Ho Song, Seoul, South Korea; B.S. (Seoul National University); M.S.; Chemical Engineering
Dr. Liang-Shih Fan

Sandhya Balakishnala Siddhar, Bombay, India; B.A., M.A. (The University of Bombay); Business Administration
Dr. Jamina C. Ratlack

Jill Annette Strawbridge, Los Angeles, CA; B.A. (University of California at Los Angeles); M.A. (California State University); Industrial and Systems Engineering
Dr. George Smith

Carolyn Supplee, Manuia, NJ; B.A. (Goucher College); M.S.; Chemistry
Dr. Andrea Wojcik, Dr. Devon W. Meek

James Tazewell Talley, Columbus; B.M.Ed., M.M. (University of Montevallo); Music
Dr. David M. Butler
Michael Clay Tanner, Columbus; B.S.Ed., M.S.; Computer and Information Science
Dr. B. Chandrasekaran

Wilson Anthony Taylor, Indiana, PA; B.S. (Indiana University of Pennsylvania); M.S.; Botany
Dr. Thomas N. Taylor

Gaochao Tian, Lanzhou, Gansu; B.S. (Lanzhou University); OUS Biochemistry Program
Dr. M. D. Tai

Deborah Ann Todhunter, Ebensburg, PA; B.S., M.S. (Pennsylvania State University); Dairy Science
Dr. K. Larry Smith

Linda Vespa, Boardman, B.S. (Grove City College); M.S.; Microbiology
Dr. Bruce S. Twilting

Olegario Guerrero Villoria, Jr., Lipa City, Philippines; B.S. (The University of the Philippines); M.S.; Civil Engineering
Dr. Zeltan Nemeth, Dr. Mark McCard

Xiaoming Wan, Wuhan, Hubei, China; B.S. (Southern University of New York at Banghampton); English

Susan Amkraut, Palo Alto, CA; B.A., B.S. (The University of California at Santa Cruz); Art Education

Panida Aue-Apaikul, Bangkok, Thailand; B.A., M.A. (Chulalongkon University); Education

Neil James Bardon, Bexley; B.S.Ed.; Education

June Reeder Bargar, Delaware; B.S.Soc.Ed.; Education

Suzanne Marie Beaumont, Reading, PA; B.A. (College of William and Mary); Health, Physical Education and Recreation

John Michael Beery, Porterville, CA; B.A. (California State University at Sacramento); Psychology

Marjorie Bennett, Columbus; B.Mus.Ed., B.Mus.; Music

Erick Noble Berquist, Massillon; B.A.; Public Administration

Carole Paris Bickel, Blacklick; B.S.Ed.; Mathematics

Nancy Andrew Brunner, Columbus, B.S.; Business Administration

Stephen William Busonik, Columbus; B.Mus.; English

Joanna Lawyer Cavendish, Columbus; B.A.; Education

Holly Vannmeter Chakeres, Sugar Grove; B.S. (Ohio University); Education

Wei-Chun Chiu, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); History

Mary Ellen Clark, Newton Square, PA; B.S. (Pennsylvania State University); Health, Physical Education and Recreation

Lynne Michele Cope, Wadsworth; B.A. (Baldwin-Wallace College); Journalism

Beth Nelson Crow, Terre Haute, IN; B.A., B.A. (Harvlon College); Communication

Anita Marie Davena, Waverly; B.A.; Psychology

Theresa Marie deGuzman, Potomac, MD; B.A. (The College of Wooster); Education

Eileen Patricia Delaney, Columbus; B.S. (State University of New York at Buffalo); Journalism

Theresa Marie Desmond, Reno, NV; B.A. (The University of Nevada), English

Diana N. Dicks, Grove City; B.A. (The University of Nebraska at Omaha); Education

Florence Domar, San-Fernando, Trinidad & Tobago; B.S. (Howard University); Health, Physical Education and Recreation

Keith Robert Donnelly, Indianapolis, IN; B.S. (United States Military Academy); Political Science

Nancy Geiser Eckert, Bellevue; B.S.Ed.; Education

Mary C. Ewing, Ada; B.S. Ed. (Ohio Northern University); Education

Leslie Joan Farley Sheets, Gallipolis; B.A.; Communication

Patricia Bibko Forward, Columbus; B.A.; Education

William Jeffrey Gaetz, Toledo; B.S. (Bowling Green State University); Journalism

John Thomas Gardner, University Heights; B.S., M.B.A. (East Carolina University); Business Administration

Felicia Marie Gusni, Dublin; B.S. (Miami University); Journalism

William Paul Getzey, Jr., Johnstown, PA; B.A. (Edinboro University); Photography and Cinema

Janet Sue Gibson, Pickerington; B.S. (Miami University); Education

Melissa Hill Graham, Zanesville; B.S.Ed.; Education

Jose Filipe Garcia Correia Guedes, Lisbon, Portugal; Bachelor's; Economics

Michael Bryan Guess, Dublin; B.S., D.D.S. (The University of California at San Francisco); M.S.; Education

Mahmood Mohammad Hajjat, Columbus; B.A. (Yarmouk University); Business Administration

Deborah Anne Hall, Columbus; B.S. (Trenton State College); Speech and Hearing Science

Sharon H. Hanover, Columbus; B.S.Ed.; Psychology

Jacqueline Mary Hazlett, Columbus; B.S. Al HShef. Prof.; Education

Pamela Sue Heilman, Havre, MT; B.A. (Rocky Mountain College); Theatre
James Robert Herd, Fairborn; B.S.Ed.; 
Education

Evelyn Chiyoiko Hirata, Lake Bluff, IL; 
B.F.A. (Philadelphia College of Art); Art 
Education

Tan-Hsi Ho, Taipei, Taiwan, R.O.C.; B.A. 
(National Chengchi University); Journalism 
Steven Robert Houser, Columbus, B.A.; 
English

Clark Eric Hultquist, Columbus, B.A. 
(University of Cincinnati); History

Allan Eugene Johnson, San Pedro, CA; 
B.A., M.S. (California State University at 
Long Beach); Education

William Allan Jones, Jr., Columbus, B.S. 
(University of North Carolina); M.S. 
(Montana State University); History

James Richard Karpac, Columbus, B.A.; 
D.D.S.; Education

Deborah Ann Katz, Cleveland, B.A. (The 
University of Pennsylvania); Health, 
Physical Education and Recreation

Laura Suzanne Kesting, Traverse 
City, MI, B.A. (Michigan State 
University); Philosophy

Bradford Lee Kesso, Beachwood; 
B.S.Food Sc., B.S.Food Tech., D.D.S.; 
Education

Mark Louis Kilwein, Pittsburgh, PA; B.S. 
(The University of Pittsburgh); Psychology

YoungHwan Kim, Pusan, South Korea; 
B.A. (Pusan National University); Education

Scott Robert Kirkman, Columbus, B.A., 
M.A. (Miami University at Oxford); History

Midori Kitagawa, Kobe, Hyougo, Japan; 
B.A. (Women’s College of Fine Arts); Art 
Education

Judith Lee Kitchen, Columbus, B.A.;Arch. 
M.Arch. (University of Virginia); Business 
Administration

Kathryn Alison Kott, Columbus; B.S. 
(The University of Wisconsin at 
Whitewater); Psychology

Linda Catherine Kuhn, Logan, B.A.; 
B.S.Ed.; Education

Anneite Mealy Kuss, Springfield, B.S.Ed. 
(Miami University); Education

In-Sub Kwak, Anyang, Gyung-Gi, South 
Korea; B.A. (Pusan National University); Economics

Tracey Weisfeld Lehner, Cuyahoga 
Falls, B.S.Ed. (Bowling Green State 
University); Speech and Hearing Science

Shu-Lan Li, Nol, Taipei, Taiwan, R.O.C.; 
B.A. (National Taiwan University); Journalism

Neng-Fai Lin, Taipei, Taiwan, R.O.C.; 
B.A. (National Taiwan University); 
Business Administration

Thomas Hamilton Little, Claremont, NC; 
B.A. (The University of North Carolina at 
Greensboro); Political Science

Willie Ladale Lloyd, Anniston, AL; B.A. 
(Alabama State University); Journalism

Kathleen Jonita Lynch, Columbus; B.S. 
(Miami University); M.S.W.; Public 
Administration

Lucy Eleonore Lyons, San Diego, CA; 
A.B. (San Diego State); Political Science

Wolfgang Masoky, Hanover, West 
Germany; Diploma (Fachhochschule); 
Industrial Design

Michael Hughes Mathison, Cincinnati; 
B.A. (The University of Cincinnati); 
Education

Jane Ellen Maul, New Washington; 
B.M.Ed. (The University of Akron); Music

Gary Brian Mayton, Hudson; B.S.Ed.; 
Education

Molly Ann McCarrick, Columbus, B.A. 
(Capital University); Education

Brenda K. Miller, Van Wert; B.A.; Public 
Administration

Mark Carlton Miller, Marysville; B.A. 
(Ohio Northern University); J.D. (George 
Washington University); Political Science

Gayle Maree Millsaps, Westerville; B.A. 
(The University of Tennessee); 
Mathematics

Michael Scott Molasky, St. Louis, MO; 
B.A. (Johnston College); East Asian 
Languages and Literatures

Norman Arthur Mooradian, 
Glenora, CA; B.A. (Pitzer College); 
Philosophy

Kevin Eugene Mullet, Berlin; 
B.S. Ind Des.; Industrial Design

Alice W. Noll, Gahanna; B.S.Nurs., M.S.; 
Education

Jeri Lee Ott, Cohocton; B.A.; Health, 
Physical Education and Recreation

Gloria Elis Pados, Columbus; B.S.Ed.; 
Education

Elizabeth Veronica Pastore, Worthington; 
B.S. (Mercy College); Education

Susan Sharp Peck, Worthington; B.S. 
(Indiana University); Business 
Administration

Trent Anthony Petrie, Champaign, IL; 
B.S.; Psychology

Connie Diane Phillips, Eaton; B.S.Ed.; 
Education

Jennifer Kay Pierce, Franklin, VT; B.F.A. 
(Johnson State College); Journalism

Denise Diane Porter, Loudonville; B.S. 
(Kent State University); Education

Frederick Carl Prohl, Delaware; B.S. 
(Purdue University); Education

Ernesto E. Ramos, Maracaibo, Venezuela; 
B.Ed.Tesol (Institute Universitario 
Pedagogico de Boto); Education

James Arnold Rash, Zanesfield; B.A. 
(Bowling Green State University); M.A. 
(Central Michigan University); Philosophy

Edward Durell Ray, Columbus; B.A. (The 
University of Utah); East Asian Languages 
and Literatures

Gregory Ferrall Robinson, Fairlawn; B.S.; 
Psychology

Scott William Robinson, Berlin, CT; B.A. 
(Eastern Connecticut State College); 
Health, Physical Education and Recreation

Lisa Ann Scherer, Snyder, NY; B.S. (State 
University of New York at Cortland); 
Health, Physical Education and Recreation

Corinne Kay Severance, Sterling 
Heights, MI; B.S. (Michigan State 
University); Education

Todd David Sevig, Columbus; B.S. (Iowa 
State University); Psychology

Nancy Lynn Shapiro, Columbus; B.S.N. 
(William Paterson College); Public 
Administration

Liwei She, P.R.C.; B.A. (Tianjin Foreign 
Languages Institute); East Asian Languages 
and Literatures

Nicasio Silverio, Madrid, Spain; B.A.; 
Romance Languages and Literatures

Paul Bradley Slane, Westerville, B.S.Ed.; 
Health, Physical Education and Recreation

Richard Charles Spielman, Massillon; 
B.S. (Southern Illinois University); Health, 
Physical Education and Recreation

Richard Peter Squire, Woking, Surrey, 
England; B.A. (Leicester University); 
Geography

Joan Irene Staveley, Columbus; B.A. 
(University of California at San Diego); 
Art Education

In Sook Suh, Seoul, South Korea; B.A. 
(Hanyang University); Photography and 
Cinema

Lynn Ellis Swisher, Columbus; Education

Tierney Ellen Thom, Columbus; 
B.S.Ed.; Education

Janet Gail Underwood, Dayton; B.G.S. 
(The University of Dayton); Journalism

Pei-Ling Wang, Taiwan, Taiwan, R.O.C.; 
B.A. (Tamkang University); Education

Brent Alan Watson, Cambridge; 
B.S.Nat.Res.; Public Administration
Jill Marie Weiler, Columbus; B.A. (Brown University); Education  
Cassandra Jarvis White, Columbus; B.S., Speech and Hearing Science  
Colleen Griffin White, Columbus; B.S. (Wheeling College); Education  
Nora Lizabeth White, West Jefferson; B.A. (Urbana University); Education  
David James Wilcox, Hamilton; B.S. (The University of Otage); Health, Physical Education and Recreation  
Susan Jane Williams, Fort Wayne, IN; B.A. (Saint Francis College); History of Art  
Deborah HunttoN Wiseman, Galion; B.S.Ed.; Education  
Deanne Beth Wittlak, Mt. Vernon; B.S.Ed.; Education  
Chaweeun Wongwarangkui, Bangkok, Thailand; B.A. (Chulalongkorn University); Education  
Kymme Denice Wright, Columbus; B.S.Ed.; Education  
Ya-Ting Wu, Taichung, Taiwan, R.O.C.; B.A. (Tunghai University); Music  
Yao Wu, Taipei, Taiwan, R.O.C.; B.Mus.Ed.; Music  
Ke Zou, Nanchang, Jiangxi, P.R.C.; B.A. (Jiangxi Normal University); M.A. (Guangzhou Foreign Language Institute); Linguistics  
Joyce Marie Rosenberger, Columbus; B.A. (Juniata College); M.O.T. (Western Michigan University); Hospital and Health Services Administration  
Master of Labor and Human Resources  
Jill Ann Hannah, Columbus; B.S. (Bowling Green State University); Labor and Human Resources  
Linda Jo Labate-Ackley, Youngstown; B.A.; Labor and Human Resources  
Milan D. Lint, Dennison; B.S.Bus.Adm.; Labor and Human Resources  
David Christian Rehkof, Powell; B.A. (State University of New York at Buffalo); Labor and Human Resources  
Ora Spann, Rembert, SC; B.S. (Weserforce University); B.S. (University of Dayton); Labor and Human Resources  
Master of Landscape Architecture  
Kathy Jane Florence, Columbus; B.S. Nursing (Harding College); Landscape Architecture  
Hiruki Izumi, Akita, Japan; B.A. (Musashino Art University); Landscape Architecture  
Gregory Robert Krobot, St. Louis, MO; B.S. (University of Missouri at Columbia); Landscape Architecture  
HuaL Peng, Beijing, P.R.C.; B.A. (Beijing Forestry University); Landscape Architecture  
Master of Music  
Marjorie Bennett, Columbus; B.Mus.Ed., B.Mus.; Music  
Master of Science  
Jimmy Eduardo Adjuma, Maracaibo, Venezuela; B.S.Mech.Eng. (The University of Missouri at Rolla); Mechanical Engineering  
Mohamed Tahsin Alchorbaji Mzak, Syrian Arab Republic; B.S.E.E.; Electrical Engineering  
Perry David Allen, Marysville, B.S.; Natural Resources  
Paula S. Allton, Columbus; B.S.Med.Tech.; Allied Medical Professions  
Marie June Anderson, Wausau, WI; B.S. (The University of Wisconsin at Platteville); Plant Pathology  
V. Babu, Trichy, Tamilnadu, India; B.E. (The University of Madran); Mechanical Engineering  
Theresa Lewis Baker, Bethesda, MD; B.S. (The University of Maryland); Ceramic Engineering  
Ayse Bayazitoglu, Istanbul, Turkey; B.S. (Bogazici University); Computer and Information Science  
Barbara Deborah Becker, Columbus; B.A., M.S. (State University of New York at Albany); Computer and Information Science  
Bryan Jerome Bickimer, Mansfield; B.M.E. (Cleveland State University); Welding Engineering  
Bryan Robert Bonke, El Paso, CO; B.S. (Valparaiso University); Chemistry  
Gregory Kay Booser, New Concord; A.A.S., B.S.Agr.; Agricultural Education  
David Stuart Bradin, Willingboro, NJ; B.A. (Wittenberg University); Chemistry  
Kay Jontz Brown, Carmel, IN; B.S.N. (Indiana University); Nursing  
Kathleen Ann Bruner, Columbus; B.S. (Miami University); Zoology  
Aaron Lee Bush, Grain Valley, MO; B.S. (Northwest Missouri State University); Mathematics  
Anne Marie Cagle, Kettering; B.S.C.I.S.; Electrical Engineering  
Kevin Michael Cawthern, Elysburg, PA; B.S. (Carnegie-Mellon University); Chemistry  
James Harry Chakeera, Washington Court House; B.S.Agr.; Animal Science  
Vijay Prem Chandnani, Columbus; B.A. (The University of Chicago); M.D.; Radiology  
Wen-Wen Chen, Taian, Taiwan, R.O.C.; B.S. (Tunghai University); Pathology  
Gorky Chin, Cleveland Heights; B.S.E.E.; Electrical Engineering  
David Harold Chinery, Flaggtown, NJ; B.S. (Rutgers University); Horticulture  
Anant Chinnaboot, Bangkok, Thailand; B.S. (The Royal Thai Military Academy); Geodetic Science and Surveying  
Taher Chouikh, El-Alia, Tunisia; B.S.M.E.; Mechanical Engineering  
Scott J. Coe, Worthington; B.S. (Texas A & M University); Mechanical Engineering  
Brenda L. Coles, Columbus; B.S. (Youngstown State University); Allied Medical Professions  
Peter Kwame Condobery, Hohoe, Ghana; B.S. (Bombay Veterinary College); Poultry Science
Timothy M. Copelin, Shawnee, OK; A.B. (Saint Anslem's College); Zoology

Keith Richard Comack, Land O' Lakes, FL; B.S. (The University of Florida); Physics

Paul Kevin Cunningham, Detroit Lakes, MN; B.S. (University of Wisconsin at Stevens Point); Zoology

Carlos Fernando Diaz Suarez, Colombia; Diploma (Universidad Ind de Santander); Civil Engineering

Jerome William Donovan, Jr., Delaware; B.S.Ag.; Agricultural Education

Bertha Ann Ford, Huntsburg; B.S.Nurs.; Nursing

Thomas Robert Foster, Westerville; B.S. (The University of Southern California); M.D.; Radiology

Kevin Fairbairn Fowler, Painesville, B.S.Ag.; Agricultural Economics and Rural Sociology

Roger Allan Fulton, Strongtown, PA; B.S. (Indiana University of Pennsylvania); Physics

Jeffrey Owen Gerberick, Cincinnati; B.S.Bus.Adm.; B.S.Ag.; Agriculture

Steven Joseph Giust, Columbus, B.S.; Mathematics

Susan Rebecca Gresham, Columbus; B.S.N. (Otterbein College); Nursing

James Allen Hall, Dublin; B.S.C.E.; Civil Engineering

Suzanne Hanes, Columbus, B.A. (Capital University); Natural Resources

Fugui He, Chongqing, Sichuan, P.R.C.; B.S. (Chongqing University); Mechanical Engineering

Craig Francis Hemann, Brooklyn, B.S. (Case Western Reserve University); Biomedical Engineering

Gregory Eugene Hilmas, Worthington; B.S. (University of Minnesota); Ceramic Engineering

Robert Lee Hoffman, Bellevue; B.S.Ag.; Agricultural Education

Keehwan Hong, Taegu, South Korea; B.S.; M.S. (Seoul National University); Geodetic Science and Surveying

Yunkui Hou, P.R.C.; B.S. (Wuhan Technique University); M.S., Statistics

Goang-Tay Hsu, Huwei, Taiwan, R.O.C.; B.S. (National Taiwan University); Computer and Information Science

Shih-ying Hwang, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Agronomy

Jeong Sik Hyun, Seoul, South Korea; B.A. (Hanyang University); Industrial and Systems Engineering

Thomas M. Insalaco, Oak Ridge, TN; B.A. (State University of New York at Potsdam); Industrial and Systems Engineering

Muhammad Iqbal, Peshawar, Pakistan; B.A. (Punjab University); M.S. (Quaid-I-Azam University); Agricultural Economics and Rural Sociology

Debra K. Bostwick Jackson, Radnor; B.S.N. (Franklin University); Nursing

Julie Louise Johnson, Cambridge; Home Economics

Brian Douglas Jones, Sunbury; B.S.Ch.E.; Mathematics

Akiyoshi Kabe, Mori-Isawa-ku, Japan; B.S. (The University of Tokyo); Welding Engineering

Kathleen Jane Kingma, Columbus; B.S. (Marietta College); Geology and Mineralogy

Kevin Daniel Klingler, Kenton; B.S. (University of Delaware); Welding Engineering

Timothy John Kropf, Cincinnati; B.S. (Rose-Hulman Institute of Technology); Electrical Engineering

Dale Alan Krummen, Pickerington; B.S. (Purdue University); Electrical Engineering

Larry Edward Kunz, Lebanon, IL; B.A. (McKendree College); Geodetic Science and Surveying

Cori Ann Kurtz, South Amboy, NJ; B.S.C.E.; Civil Engineering

Colleen Marie Lang, North Olmsted; B.S.N. (Ohio Wesleyan University); Nursing

Chad Eugene Law, Huron; B.S.M.E.; Mechanical Engineering

Samuel F. Lebowitz, Columbus; B.S. (Pennsylvania State University); Food Science and Nutrition

Dong-Sun Lee, Taegu, South Korea; B.S. (Seoul National University); Home Economics

Susan Kay Lee, Bloomington, IN; B.S.Nurs.; Nursing

Carolyn Jean Leroux, Toledo; B.S. (University of Notre Dame); OSU Biochemistry Program

Laura Roxanne Letcher, Ramsey, NJ; B.S. (The University of Delaware); Animal Science

Xia Li, Columbus; B.S. (Nankai University); M.S.; Computer and Information Science

Deron Craig Littlejohn, Troy; B.S.E.E.; Electrical Engineering

Hung Cam Ly, Columbus; B.S.E.E.; Electrical Engineering

Harry N. Malone, Hillards; B.S. (University of Pittsburgh); Natural Resources

David Marshall, Jr., Painesville; O.D.; Physiological Optics

Philip Brian McCorkle, Dublin; B.S.E.E. (University of Dayton); Bio-Medical Engineering

Robert Sherman McIntyre, Columbus; B.S.Bus.Adm.; Geodetic Science and Surveying

Mark Stephen Merry, Edinboro, PA; B.S.C.I.S. (Edinboro University); Computer and Information Science

Stephen Gerald Miller, Centerville; B.S.E.E.; Electrical Engineering

Garret Allen Moore, Pembroke, VA; Canada; B.A. (Dartmouth College); D.V.M. (University of Guelph); Veterinary Physiology and Pharmacology

John Barthe Morley, Milwaukee, WI; B.S. (The University of Wisconsin); Engineering Mechanics

James Charles Mosure, Canfield; B.S. (University of Cincinnati); M.D. (Northeastern Ohio College of Medicine); Radiology

Kathleen Annette Mullaney, Edwards, NY; B.S. (Saint Lawrence University); Geology and Mineralogy

Paul Joseph Murphy, Columbus; B.S. (Fairfield University); Physics

Rajesh Nagpal, Rajasthan, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

George William Nasinyama, Busia, Uganda; B.V.M. (Makerere University); Veterinary Preventive Medicine

James Jerome Oboz, Toledo; B.S. (The University of Toledo); Mechanical Engineering

Jeanne Marie Osborne, Kettering; B.S.Ag.; Animal Science

Hilmi Bin Othman, Selangor, Malaysia; B.S. (Ferra State College); Geodetic Science and Surveying

Mohamed Oulim, Oum, Algeria; B.S.E.E. (The University of Science Technology at Oran); Electrical Engineering

Kim Allyn Palmer, Reynoldsburg, B.A. (Michigan State University); Music
Tingfan Pang, Yili, Xinjiang, P.R.C.; B.S. (Shihhez Agricultural College); Agricultural Engineering

Mary Elizabeth Paranto, Columbus; B.S. (Villa Maria College); Pathology

Amy Sue Park, Maple Heights; B.S., B.S.; Computer and Information Science

Chulwoo Park, Seoul, South Korea; B.A., B.S.; Nursing

Technical and Information Science and Rural Sociology

Richard J. Roth, Columbus; B.S.Nurs.; Nursing

Kevin B.S.C.E.; Civil Engineering

Mary Anna Pickrel, Centerville; B.A. (Northwestern University); Preventive Medicine

Mary Elizabeth Plummer, Columbus; B.S. (Wright State University); Preventive Medicine

Carl Frank Poplar, Worthington; B.S.Met.E.; Engineering Mechanics

Brian Gibson Powers, Columbus; B.S. (Saint Lawrence University); Geology and Mineralogy

Tanzia Qu, Wuhan, P.R.C.; B.S. (Peking University); Nuclear Engineering

Carol Lee Rachfal, Worthington; B.S.Nurs.; Nursing

John Leonard Readey, Saint Louis, MO; B.S. (The University of Missouri at St. Louis); M.S.; Computer and Information Science

John Ryes Redmond, Columbus; B.S.C.E.; Computer and Information Science

Kevin M. Rodgers, Youngstown; B.S. (Case Western Reserve University); Computer and Information Science

Robin Earl Roth, Columbus; B.S.; Natural Resources

Janet Marie Runner, Milan; B.S.F. (Bowling Green State University); Nursing

Moeljadi Santoso, Malang, Indonesia; B.S.M.E.; Mechanical Engineering

Babou Modou Sarr, Banjul, The Gambia; Diploma (National Agricultural Technical College); Agricultural Economics and Rural Sociology

Richard Joseph Scheuerle, Jr., Cincinnati; B.S. (University of Notre Dame); Computer and Information Science

Theresa Maria Schwartz, Columbus; B.S. (The University of Michigan); Chemistry

Joyce Carol Sebilia, Brunswick; B.S.Nurs.; Nursing

Tracy Lynn Shelley, Columbus; B.A. (Wittenberg University); Environmental Biology

Rebecca Sue Shie, Sidney; B.S.Nurs.; Nursing

Farindungan Simanjuntak, Indonesia; B.S.C.E. (Institute of Technology); Civil Engineering

Mulya Effendi Siregar, Jakarta, Indonesia; B.E. (Bogor Agricultural University); Agricultural Economics and Rural Sociology

Yosephin Soegiarto, Jakarta, Indonesia; B.S.E.E. (Parahyangan Catholic University); Civil Engineering

Jeanne Marie Soehlen, Canton; B.S.Food Sc.; Food Science and Nutrition

Carolyn Marie Sommerich, Columbus; B.S.M.E. (The University of Cincinnati); Industrial and Systems Engineering

Raman Venkata Srinivasan, Madras, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

Catherine Steininger, Kettering; B.S. (Miami University); Nursing

John David Stucki, Columbus; B.S., B.S. (Wharton College); Computer and Information Science

Marianne Sturr, Dayton; B.S.Al.Hth.Prof.; Anatomy

Emi Eisa Sugimoto, Lancaster; B.S. (Ohio University); Microbiology

Weiguo Sun, Chengdu, Sichuan, P.R.C.; B.S. (Nanchong Teacher's College); M.S. (Jilin University); Chemistry

Loretta Jane Sunday, Reynoldsburg; B.S.Nurs.; Nursing

Jonathan Nelson Tinker, Alliance; B.S.Agr.; Agricultural Economics and Rural Sociology

Lynda Carol Titterington, Bedford; B.S.; Pathology

Hong Tsai, Wuhan, Hubei, P.R.C.; B.S.E.E., Electrical Engineering

Polly Ann Tiliacore-Henley, Columbus; B.S.H.E.; Home Economics

Hsiang-Hua Tu, Taiwan, R.O.C.; B.A. (University of Iowa); Home Economics

Janice Lynn Varda, Dayton; B.S. (Indiana State University); Nursing

Patricia De Arbelos Villamil, Columbus; Medical Surgeon (University of Zulia); Obstetrics and Gynecology

Frederick Werner Voork, Syracuse, NY; B.S. (Syracuse University); Electrical Engineering

ZhaoHui Wang, Chengdu, Sichuan, P.R.C.; B.Sc. (Peking University); Physics

Vera Fosnot Wehrli, Columbus, B.S.E.E. (Case Western Reserve University); Electrical Engineering

Juliana Whitmore, St. Louis, MO; B.A. (Cornell University); Physics

David Andrew Wilkie, Toronto, Ontario, Canada, D.V.M. (The University of Guelph); Veterinary Clinical Sciences

Stephen William Wonderly, Columbus; B.S. (Wright State University); Computer and Information Science

Li-Fen Wu, Taipei, Taiwan, R.O.C.; B.E. (National Taiwan University); Computer and Information Science

Mingming Wu, Qin Yang, Jing Su, P.R.C.; B.S. (Nanjing University); Physics

Yuping Yang, Westerville; B.S. (Fudan University); M.S.; Computer and Information Science

Seung Jong Yi, Seoul, South Korea; B.E. (Hanyang University); M.S. (Oregon State University); Engineering Mechanics

Lawrence Go Yu, Quezon City, Philippines; B.S.E.E. (The University of the Philippines); Industrial and Systems Engineering

Andrew Charles Zeik, St. Clairsville; B.S.E.E.; Electrical Engineering

Dewi Zhu, P.R.C.; B.S. (Northeast Institute of Technology); Metallurgical Engineering

Certificate of Specialist in Russian Area Studies

Gordon LeCompte Bolmer, Findlay; B.A. (Ohio University); M.A.; Slavic and East European Studies
College of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

- College of the Arts
- College of Biological Sciences
- College of Humanities
- College of Mathematical and Physical Sciences
- College of Social and Behavioral Sciences

College of the Arts

Dean: Donald Harris

Bachelor of Arts

Janie Marie Adams, Fairborn
Kevin Patrick Boyd, Cincinnati
Fandel Lee Collars, Steubenville
Marcine Gail Harenberg, Mansfield
Thomas Howard Kenison II, Columbus
Sarah Helen Meirscm, College of the Arts
Susan Pauline Genthner, Breaksville
Peter John Hering, Burton
Elizabeth Sue Klapholz, University Heights
Jill M. Rable, Lima
Forest Edward Wilson, Jr., Caledonia

Bachelor of Music Education

Doris A. Browning Adair, Williamsson, WV
Ellen Elizabeth Edgar, Darville
Jill Anne Hearson, Cumberland, MD
Richard Lee Pearson, Foxboro, MA

Bachelor of Science in Industrial Design

Mark Steven Schultz, Parma

College of Biological Sciences

Dean: William A. Jensen

Bachelor of Arts

David Christopher Calco, Olmsted Falls

Bachelor of Science

Jane Ellen Blight, Delaware
Lisa Marie Bohn, Münster
Karen Ann Cook, Berea
Gary William DeVoe, Cincinnati
Phillip Dale Farnlacher, Johnstown
Elizabeth Anne Firchau, Newark
Grant Lafayette Franklin, Jr., Cleveland Heights
Janet Ann Giaenlos, Lyndhurst
Ann Catherine Grimm, Columbus
Donald Lee Hagemaster, Jr., Homewood, IL
Bonita Matthews Hamilton, Columbus
Donna Paige Harrison, Columbus
Melissa Lynn Heath, St. Clairsville
Kenneth James Heli, Ashland
Lisa Ann Joseph, Zanesville
Jerry Floyd Kidwell, Columbus
Alan Steven Levy, Tazanna, CA
Daniel Patrick Lorch, Seven Hills
Troy William McKelvey, Edgerton

Bachelor of Arts

Christopher Allen Bergsman, Birmingham, MI
Pandora Aey Emore, Youngstown
Julie Anne Hearson, Cumberland, MD
Theodore L. Potts, Hamilton
Jeanne Staton Snedeker, Columbus

Bachelor of Music

Howard Steven Nathan, Beachwood
James Rains Nusken, Columbus
Laura Lee Paul, Mansfield
Amy Jo Peters, Circleville
Jennifer Anne Schweitzer, Defiance
Kirk Alan Stashke, New London
Catherine Abigail Tice, Beavercreek
Paula Lea Willett, Columbus

College of Humanities

Dean: G. Michael Riley

Bachelor of Arts

Alyson Kay Beem, Pataskala
Shane Patrick Carter, Sullivan
Michelle Ann Cotler, Columbus
Walter Michael Duzzny, Youngstown
Dana Ann Elliott, Worthington
Donald Robert Emmerling, Westerville
Patrick William Foley, Sagamore Hills
Holly Anne Foster, Troy
Karen Lynn Frank, Columbus
Mary Louise Gallagher, Columbus
David Everett Gilmore, Wapakoneta
Peggy Bedell Halley, Grove City
Jane Irene Henry, Columbus
Nancy Lee Jansen, Columbus
Melinda Jill Johnson, Gahanna
Curts Lee Kovach, Seven Hills
Carol Alexis Krentzman, Columbus
Cynthia M. Kristof, Marion
Diana Lynn Kropp, Columbus
Kimberly Dawn Landis, Columbus
Maria Diane Magisano, Canton
Dale Dwayne Masten, Vermilion
William Joseph McGinnis, Columbus
Rita Kay Price, Columbus
Sophia Stacy Psychogios, Upper Arlington
Scott Lee Rawdon, Granville
Catherine Elizabeth Renspie, Columbus
Bonnie Jean Reyher, Stafford, PA
Mark Richard Ronckovsky, Gahanna
Charles Glen Ross, Columbus
Christopher Thomas Ryan, Dublin
Joel Sams, Columbus
Susan Messenger Tabacca, Hilliard
Jon Derek Taylor, Lisbon
Terebe Marie Tiberzio, Columbus
Mark Lawrence Tucker, Columbus
Michael F. Tussey, Columbus
Edward Walter Twynam, Port Clinton
Neal Bradley Vickers, Dresden
Peter John Vogel, Columbus
Renee Sherri Wilson, Warren
Gregory Allen Young, Hilliard
Donna Jean Zacchini, Belleaire
College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

Tahira Aquila Abdul-Malik, Washington, DC
Karen C. Caradang, Elyria
Russell Shetter Fillmore, Cuyahoga Falls
David Robert Pope, Longmeadow, MA
Daniel Michael Schauer, Euclid

Bachelor of Science

Michelle Ann Adams, Kettering
Todd James Aebie, Port Clinton
Meit Avitan, Columbus
Roger Franklin Barrieau, Dayton
Cecelia Marie Bishel, Columbus
Stephen Joseph Champa, Worthington
George Robert Chatfield, Grove City
Zino Cheng, Jakarta, Indonesia
Mike Anthony Crider, Mansfield
Adre L. Danush, Fairborn
Christos Cegas, Columbus
Kelly Lynn Gordon, Orient
Richard Penn Graham, Kent
Colleen Dawn Hall, Loveland
Jonathan Glen Hardberger, Columbus
Brian Frank Hayes, Akron
Michael James Kimchenbaum, Marysville
Kyle Bryan Klinger, Kenton
Demetrios Xenophontos Koulas, Larnaca, Cyprus
Daniel Ray Lane, Marietta
Joseph Louis Layko, Raleigh, NC
Douglas Eugene Lyle, Columbus
Pamela Marie McDowell, Spotsville, KY
Alice Laurene Payne, Willoughby
Michael Ray Phelps, Troy
Willis Martin Ray III, Springfield
Brian David Rehard, Pipersburg
David Michael Roush, Gahanna
Nancy M. Smather, Kittanning, PA
Douglas Brent Swayne, Westerville

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Michelle Marie Abbott, Cuyahoga Falls
Timothy Robert Adams, Lucas
Dara Lynn Albanese, Shadyside
Mark Douglas Albright, Bucyrus
Terry Derrell Anderson, Whitehall
Colleen Caldwell Atkinson, Sandusky
M. Stephanie Auer, Bay Village
Steven Lee August, Cleveland

John Patrick Bailey, Medina
Bruno Baldo, Westerville
Debra Kaye Barnes, Lima
Rebecca Sue Bevis, Worthington
Alvaro Gonzalez Berriga, Columbus
Victor Anthony Bartel Jr., Columbus
Michael Charles Beebe, Plymouth
Deborah Ann Belskie, Worthington
Bernard Allen Benecke, Columbus
Leif Phillip Bickel, Columbus
Darrell Lawrence Browning, Cincinnati
Kim Eileen Bulinski, Broadview Heights
Jennifer Lynn Burnham, Berlin Heights
Beverly Ann Caley, Ashland
Carl Russell Canezstro, Urbana
Julie Ann Cawley, Urbana
Anita Marie Chase, Atlanta, GA
Tamala Roxanne Clark, Toledo
Charles Francis Coen, Annandale, VA
Lynda Michelle Cohen, Cincinnati
Rhonda Ranae Cole, Springfield
Carolyn Anne Conlon, Columbus
Darrell Paul Craig, Germany
Richard Douglas Cummings, Carrollton
Gregory Keith DeLong, Toledo
Jonathan Andrew Deshler, Columbus
James Alan Deskins, Westerville
Robert Frederick Deuber, Barberton
Susan Mary Dieckman, Hayward, WI
Michael Duane Dillon, Cincinnati
David Edgar Dixon, Mt. Dora, FL
Karmon Michelle Elliott, Marion
Leonard Stanley Enskine, Jr., Columbus
Newman John Evans, Tipp City
Scott Douglas Fehr, St. Clairsville
Kyra Marie Fleming, Youngstown
Daniel Edward Ford, Chillicothe
Suzanne Marie Francati, Bay Village
Ronald Anthony Fresco, Columbus
Michela Diane Gray, Beavercreek
Kathleen Lynn Greene, Westerville
Maria Angela Griffith, Lima
Melissa June Guttridge, Newark
Jennifer Ruth Haenicker, Kalamazoo, MI
John Benton Hall, Columbus
Nathan Kurt Hall, Newcomerstown
Linda L. Harrison, London
Lorn Ruth Haskell, Auburn, ME
Todd Ellis Hassinger, Ashland
James Andrew Hillenbusch, Vermilion
Jon Christopher Hockman, Upper Arlington
Margaret Katherine Holslander, Sidney
Steven M. Howetter, Hamburg, NY
Scott Edward Hoy, Grove City
Cathy Ann Jacobs, Columbus
Cynthia Ann Jeffrey, Chesterland
Mark James Jefferys, Gahanna
Lars Christopher Johnson, Worthington
Tracey Anne Judy, Dover
Rhonda Sue Kamins, Pepper Pike
Michael Aaron Kane, Shaker Heights
Douglas John Kaye, Erie, PA
Catherine Jean Kessler, Galloway
Michael Sotire Kiddis, Columbus
Soonhyung Kim, Columbus
Steven Ross Klein, Cleveland Heights
Lawrence Alan Kohm, Beachwood
Lars Sue Kolacz, Newton Falls
Christopher Kotting, Chagrin Falls
Robert Swarm Kunchal, Aurora
Maureen Ann Lach, New Castle, PA
Michael James Lane, Kirkland
David Leslie Latrous, Columbus
Ann Ridgway Ledman, Lancaster
Gui Ah Jennie Lee, Worthington
John Curtis LeVally, Grove City
Florence Elizabeth Lewis, Columbus
Patrick Lachlan Livingston, West Palm Beach, FL
Richard David Lloyd, Columbus
Deborah Joy Loveman, Cleveland
Roger Mason, Columbus
Richard Jeffrey Mathews, Medina
David Wayne McCoy, Columbus
Michael Jay McCreight, Westerville
Julie Ann McQuade, Worthington
Jefrey Lynn Mengenink, Napoleon
Nancy Ann Messaros, Elyria
Liz Fazal Mohammed, Columbus
Jennifer Ann Moody, Centerville
April L. Morris, Columbus
Andrea Jeanne Nistador, Columbus
Nan Apil Navarro, Worthington
Elizabeth J. Norris, Massillon
Patricia Anne O' Carroll, Columbus
Tom Robert Palgrove, Canal Winchester
James J. Pardi II, Columbus
Daniel Allen Pears, Springfield
Ted Carlton Phillips, Columbus
Jahtee Ramei Prince, Centerville
Mia Ann Purvis, Hamilton
Nicole Rencher, Groveport
Matthew Charles Roberts, Columbus
Cynthia Ann Rundag, Columbus
Dianna Lynn Russell, Columbus
Michael Roger Serra, Chardon
Charles Cyril Shuey, Massillon
Andrew Keith Smith, Norwalk
Steven Scott Smith, Mansfield
Thomas Turner Smith, Columbus
John Michael Snider, Lima
Tara Lynn Steepleton, Alliance
Kimberly Marie Sterz, Medina
Fred W. Strahorn, Cincinnati
John Stringer, Lakewood
Diane Marie Sullivan, Hicksville, NY
Holly Chrystal Surro, Upper Arlington
Kathy Loren Turner, Columbus
Timothy Newton Taylor, Columbus
Jacqueline Tonic Tregellas, Portsmouth, England
Amy Elizabeth Triska, Cleveland
Steven Allen Upp, Swanton
Vincent Lucas Vaccaro, Worthington
Neal Bradley Vickers, Dresden
Kimberly Anne Villacres, Allentown, PA
Elizabeth Ann Voisard, Columbus
Suzanne Wagner, Adamsville
Vera Clarece Walker, Columbus
Hilary Beth Wallach, Columbus
Richard Alan Williams, Lima
G. Eric Woodland, Columbus
Richard Harris Wustm, Morningside, NJ
Cynthia Ann Ziek, Columbus
Mary Daniel Zura, Fremont

813
Bachelor of Science

Angela Kay Chesbrough, Columbus
James Clinton Copeland, Jr., Ashtabula
Ellen Phillips Cullinan, Mansfield
Maga Farid Mansour, Columbus
Douglas D. Meyer, Columbus
Wayne Alan Nicol, Homeworth
Michael Douglas Parr, Springfield
Amy Jo Phillips, Lancaster
David William Pond, Dublin
Lee Anthony Regensburger, Milford
Michael Roger Serra, Clarendon
Curt Bernard Shaffner, West Chester
Laura M. Wiese, Columbus

School of Journalism

Bachelor of Arts in Journalism

Dana Lynn Albanese, Shadyside
Jodie Lynn Arnett, Monroe
Darrell Lawrence Browning, Cincinnati
Katherine Ann Burns, Columbus
John Frederick Canaday, Columbus
Anthony Donald Cancilliere, Beckville
Carol Lynn Crutchfield, Centerville
Catherine Jo Cullinan, Columbus
Holly Tine Cunningham, Toledo
Molly Jeanne Dempsey, Columbus
Scott Martin Dring, Centerville
Thomas John Duggan, Maumee
Heidi Gunther Edens, Reynoldsburg
Christine Kay Elskree, Akron
Kimberly Sue Fisher, Tiffin
Jeffrey Carl Florian, Toledo
Darrel Roger Geis, Bradford, PA
Thomas Young Gibson IV, Lucasville
Patricia Ann Gilmore, Kettering
Leanne Kathryn Gregory, Gahanna
David Scott Hagely, Upper Arlington
Tracy Elizabeth Heldridge, Akron
Leah Kay Hemmings, Grove City
Lisa M. Herhold, Columbus
John Scott Hoskins, Heath
Kathryn Marie Hotchkiss, Salem
John William Keim, Lakewood
Cynthia Ann LeRose, Columbus
Marie Elaina Luchansky, West Chester
Keith McCallum, Columbus
Traci Kathleen Mitchell, Mansfield
David Michael Moore, Perrysburg
Michael Hugh Murphy, Worthington
Carrie Jane Niese, Marion
James Stern Oliphant, Jr., Upper Arlington
Ellen Kay Ousley, Elida
Todd Lee Overmyer, Fremont
Lori Leah Pagel, Newark
Lynn Mary Pankavich, Hamilton
Square, NJ
Sabina Rahman, Upper Arlington
Kyle Scott Reiff, Springfield
Mark Leland Rickel, Ashland
Resa Ann Robinson, Quaker City
Jeffrey S. Roediger, Springfield
Michelle Ann Royal, Defiance

Steven Eugene Runyon, Rio Grande
Brian Alan Scott, Medina
Brian Fenton Stith, Indianapolis, IN
Cherita E. Stout, Hillsboro
Michael Jacob Snider, New Washington
Catherine Lynn Sturgeon, West Chester
Bridgitt Ann Tate, Columbus
Ruth Irene Tessmer, Mansfield
Bonnie Lynn Tumulty, Worthington
David Brooks Watkins, Columbus
Julie Marie Whiteley, West Chester
Tracy Diann Williamson, Delaware
Christopher Paul Woltman, Columbus
Kimberly Kaye Wright, Reynoldsburg
Jennifer Wagner York, Centerville

College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

Simon Aivodji, Niamey, Republic of Niger
Linda Marie Barger, Springfield
Steven Allen Bauer, Willard
Bruce Leland Brainard, Medina
Jeffy Nick Brookhart, Tipp City
Benjamin Marvin Carpenter, Glenford
Matthew James Cesena, Cuyahoga
James Allen Chambers, Mansfield
Ann M. Champney, Columbus
Anne Marie Chanon, Maple Heights
G. Joseph Colluci, Ashbula
Christopher John Corcoran, Chillicothe
Joseph Lee Daubennier, Mt. Vernon
Michael Richard Daye, Wooster
Daniel Alan Dickerhoof, Paris
David Norbert Duling, Toledo
Tony Barton Dyer, Harrod
Donald Allen Evers, St. Henry
Amy Lynn Fehrmann, Dayton
Jeffrey Alan Flenniken, Alliance
Bryan Jeffrey Frisch, Avon Lake
Brian Wayne Garrett, Winchester
Michael Andrew Geiger, Creston
Karen Lea Goetz, Hilliard
Elaine Mary Graysonough, London
Don David Hedges, Radnor
Monty Dale Heiby, Celina
Gregory Scott Heisler, Norwalk
Matthew Todd Hoffman, Richwood
Robert P. Huerkamp, Cincinnati
Steven Wade Huffman, Columbus
William Keith Humb, Jr., Fayetteville
Cheryl Lynn Hutchins, Canal Winchester
Christopher Eugene Keller, Somerville
David J. Koch, Columbus Grove
Jeffrey Todd Leeman, Brewer
Michael Wayne Lehman, Grower Hill
James Hans Lenzer, Jr., Grafton
Souley Mahamadou, Niamey, Republic of Niger
Mary Elizabeth Mahne, Columbus
Craig Matthew Marshall, Columbus
Anthony Joseph Martin, Columbus
Michael Joseph McBride, Zanesville

Jamie Delores McKenzie, Wheelersburg
James Ernest McLaughlin, Mt. Vernon
Vincent Edward Metzcar, Greenville
Mary Victoria Milliken, Westerville
William Harold Mollenkamp, Wapakoneta
Richard Martin Morgan, Waynesville
David James Pesse, Maumee
Holly Ann Perkins, Columbus
Richard Martin Petersen, Oak Harbor
Frank W. Parmeley, Jr., Plain City
Laura Marie Piacotta, Columbus
Cynthia Ann Pomeroy, Columbus
Susan Michele Potts, Sunbury
Kristina Marie Richards, Gahanna
Lynn M. Riepenhoff, Lima
Amy Jo Roberts, Malta
Timothy Alan Sardo, Cleveland
Mark Aaron Sayers, Grafton
Marianne Scheiderer, Marysville
Michael Carl Schnieder, Chagrin Falls
Mary Elizabeth Smolko-Will, Zanesville
Sherri Ellen Speziale, Columbus
Ronald Russell Strader, Springfield
Steven Joseph Torma, Richfield
Edward Joseph Tuohela, Solon
William Richard VanNostrand, Columbus
Michele Renee Vogt, Hamilton
Sandra Ann Wallace, Burgoo
Alex M. Woods, Whitehouse

Bachelor of Science in Food Science

Patricia A. Zullo, North Olmstead

School of Natural Resources

Bachelor of Science in Natural Resources

Jennifer Lynn Cofer, Monclova
Jay Michael Delong, Liverpool, England
Craig Charles Falkner, Canton
Wendy C. Ostlund, Pittsburgh, PA
Susan Paige Rouse, Fort Walton Beach, FL
Kristie Marie Simpson, Springfield
Stephanie Elaine Wilbourn, Ashville
Gregory Franklin Yates, Columbus

Agricultural Technical Institute – Wooster

Associate in Applied Science

Michael John Babet, Avon Lake
Scott Alan Beck, Perrysville
Thomas Ronald Bender, Loudonville
Karianne Marie Cermak, Dillonville
Ronald Joseph Does, St. Henry
Evelyn Ruth Eisenbraun, Struthers
Bradley David Frantz, New Holland
Brett Joseph Gough, Barberton
Lydia Greer Harlament, Wooster
Melissa Sue Homan, Milan
Jeffrey William Hornsby, Cincinnati
Gregory Martin Kehres, New Washington
Jeffrey Alan Lefer, Polk
Michael Lee Andrews, Springfield
Jacqueline Gayl Painter, Charleston, WV
Jamey Edward Rauch, Little Rocking
Dwight Christian Reichenbach, Wooster
Jennie M. Tusing, Findlay
Joseph Patrick Zusack, St. Clairsville

College of Business
Dean: H. Juston Davidson

Bachelor of Science in Business Administration

Robert A. Ackerman, Worthington
Daniel P. Ackert, Westerville
Raymond Francis Albertini, Olmsted Township
Debra Jean Allen, Garrison, KY
James Douglas Allen, Worthington
Michael Patrick Aloney, Wickliffe
Tomoyuki Ari, Fairfax, VA
Mustafa Arin, Istanbul, Turkey
Gail Marie Armstrong, Hoocks Falls, NY
Larry E. Atwell, Lancaster
David Michael Barmhart, Brook Park
Lisa Marie Batman, Cuyahoga Falls
Joseph Eric Beale, Columbus
David Eric Bedillion, Vermilion
Jonathan C. Bell, Columbus
Bradley James Bennett, Pataskala
Errol L. Berman, Cleveland Heights
Dieter Heinz Bertulies, Middleburg Heights
John Andrew Bertini, Clifton, VA
Bradley Norman Betts, Dublin
David Allen Bible, Clyde
Joseph Gerard Bifulco, Cincinnati
L. Mark Billiard, Edwardsville, IL
Edgar Carl Bleck III, Cleveland
Lori Sue Bline, Newark
Douglas Edward Boes, Findlay
Frederick Arnold Borden, Columbus
Duane Douglas Bortel, Shelby
Gerald Robert Brown, Columbus
Paul Joseph Brueggeman, Dayton
Douglas Edward Buchanan, Lima
Thomas Raymond Bugno, Columbus
James L. Bumbledare, Hilliard
James Fred Carlson, Columbus
Bryan Alan Caudill, Utica
Thomas Michael Cinadr, Brecksville
Jeffery Franklin Clark, Portsmouth
Ronda Lynette Clement-Woods, Mansfield
Maureen Theresa Clifford, Columbus
Joseph Hugh Coleman, Shelby
Charles Raymond Google, Columbus
J. David Cooke, Jr., Marion
James Thomas Crookston, Stow
Lynda M. Crossan, Worthington
Jeffrey Scott Curnume, Newark
Kevin Charles Currier, Middletown
John Michael Curry, Galloway
Jacqueline S. Custer, Columbus
Janine Michelle Dabney, Youngstown
Robert Charles D'Ambrosio, Wayne, NJ
Barbara Leigh Davis, Cleveland
R. Mark Davis, Worthington
Robert Leroy Davis, Columbus
Denise Michelle Deal, New Philadelphia
Jami Lynn DeBold, Wilmington
Karen Jane Dishong, DeSaler
Eric Duane Dozier, Springfield
Carl Patrick Easton, DeGrafl
Trent E. Edwards, Plain City
Craig Patrick Engle, Reynoldsburg
Christopher John Evans, Columbus
Stephanie Rose Evans, Toledo
Malinda A. Everett, Pickerington
Joan Maureen Fernandez, Columbus
Jeffrey Ray Festog, Galloway
Robert Joseph Fischetto, Bedford
Julie A. Fisher, Prospect
Andrew R. Fedder, Columbus
Evon D. Forbes, South Euclid
Suzette Marie Foster, Bellaire
Earl Bruce Fralick, Niles
Mike E. Francis, New Carlisle
Julie Lynn Fraser, Columbus
Amy Jo Frontz, Bellville
Kristin Ann Garrett, Mansfield
Eric L. Gebler, Chagrin Falls
Bradley Joseph Gilbert, Strongsville
William James Guanco, Jr.
Manasquan, NJ
Kimberly A. Gnau, Springfield
Greg Martin Goehring, Worthington
Bradley Jasper Granger, Marion
Stephen Paul Gray, Celina
Lisa Christine Griffith, Troy
Mark Joseph Guanciale, Newark
Jerome Othello Guiford, Jr., Toledo
David Michael Haines, Worthington
Reginald R. Hamilton, Toledo
Brian Jeffrey Hamrock, Rocky River
Michael LeRoy Harldin, Jr., Gahanna
Peter Karl Haring, Mansfield
Bradley William Harrison, Chicago, IL
James Roy Hastings, Galloway
Thomas Joel Hayward, Cincinnati
Brian Lynn Henry, Columbus
Kenneth Martin Hensel, Powell
Stacy Anne Hickenbottom, Mt. Pleasant
Rodney Bonn Hickman, Springfield
Timothy Allan Holkengornd, Sandusky
Bradley D. Holman, Skokie, IL
Margaret Katherine Holslander, Sidney
Gerald Dean Hootman, Jr., New Philadelphia
Ronald James Hudak, Maple Heights
Kelley L. Hughes, Columbus
Susan Lynne Hughes, Columbus
Craig Allen Hull, Columbus
Gary Ray Hunt, Columbus
William E. Hustad, Centerville
Thomas W. Irelan, Powell
Jane Elizabeth Irwin, Marysville
Georgia Lynn Jackson, Hilliard
Karl F. Jager, Chagrin Falls
Andrew Corliss James, Columbus
Janice Lee Jeffries, Chagrin Falls
Steven Gregory Jerzy, Columbus
Jamie Robert Jerles, Columbus
Siong Thin Jie, Jakarta, Indonesia
Victor Manuel Jimenez, Marysville
Thomas Martin Johnson, Rittman
Lawrence Thomas Jupp, Mentor
Matthew John Kaiser, Waterville
Michael David Kamer, Columbus
Karen K. Kenison, Upper Arlington
Joseph Robert Keslar, Wooster
Jenny Rebecca Key, Columbus
Edward Vincent Kiger, Bogota, Colombia
Shawn James King, Columbus
Alan Sean Kirschen, Cincinnati
John Michael Klausung, Delphos
Susan Diane Klingel, Cardington
Kelly Ann Knapp, Sufferfield
Jeffrey Allen Knightjpest, Columbus
Beth A. Koscheck, Mentor
William N. Kulich, Jr., Massillon
Kevin Karl Kutler, Frostburg, MD
Thomas Edward Lah, Parma
Lois E. Lee, Cleveland
Kevin Neil Levine, South Euclid
Michael W. Lewis, Columbus
Michele Mazon Lincombe, Columbus
Darius Lamm Longmiere, Maple Heights
Bradford Ford Longville, Columbus
John Philip Lopez, Dayton
Lamar Vincent Love, Columbus
Thomas Evan Lowenkamp, Richmond Heights
Mark Jeffrey Ludwig, Lake Zurich, IL
Kenneth Bradley Luke, Centererville
Dan E. Lunde, Smithtown, NY
Michael Noinan Madden, Rosedale
William Frank Makowski, Parma
Christine A. Maltinsky, Mentor
Jonathan Lessley Marcus, Berkeley Heights, NJ
Philip Marsh, Columbus
William W. Marshall III, Lorain
Robert John Martino, Novelty
Tammy Jo Meissner, Salem
Dina Marie Melchiore, Columbus
Todd Alan Mecalf, Westerville
Phillip G. Meyer, Dayton
Peter Edward Millette, Westchester
Carl Joseph Miragliotta, Stony Brook, NY
Anita M. Moore, Parma Heights
Keith Douglas Moore, Columbus
Lee Alan Moore, Westerville
Michael Wilson Morgan, Lima
Philip James Mossor, Fremont
Christopher Scott Neal, Cincinnati
Ross Bernard Nellessen, Springfield
Kenneth Ray Null, Jr., London
Thomas C. Orr, Columbus
Leonard E. Orzech, Strongsville
Shawn Vincent Osborne, Columbus
Laura Ann Pelachac, Hudson
William John Petito, West Jefferson
David Jackson Phillips, Kent
Linda Neikirk Platt, Columbus
John Anthony Piconcinii, Columbus
Timothy Floyd Poe, Columbus

815
Bachelor of Science in Chemical Engineering
David John Bartolec, West Lafayette
Stuart Franklin Doty, Findlay
Mario Anthony Formica, Cleveland
Dimmett Sloufikidus, Thessaloniki, Greece
Michele Rae Young, Westerville

Bachelor of Science in Civil Engineering
Joseph Anthony Arezone, Cleveland
Michael William Bender, Rochester, NY
Steve Robert Burger, Willoughby Hills
Virginia Lee Clarke, Avon Lake
Fawaz Hamoui, Damascus, Syria
Leslie Hansen, Fort Lauderdale, FL
John Robert Hirschfield, St. Marys
David Gerard Kallmeyer, Cincinnati
Matthew John Lawler, North Royalton
Poh Kong Lim, Muar, Johor, Malaysia
John Clayton Lind, Jr., Columbus
John Edwin Lust, Sycamore
Thomas Richard Miller, Columbus
Luis Fernando Mondragon, Medellin, Colombia
Mark Joseph Moore, Harville
Todd Douglas Moore, Jewett
Mark Gerard Notarberardino, Sheffield Lake
Kathleen Rae Parsons, Lyndhurst
Arthur William Rentzsch, Worthington
Teresa Jean Ricca, Columbus
James Arthur Stanley, Circleville
Brad M. Thomas, Maumee
Richard Joseph Walsh, South Euclid
Erik James Wiberg, Hampden, ME
Mun Loy Wui, Kuala Lumpur, Malaysia
Teresa Lynn Zawisa, Columbus

Bachelor of Science in Computer and Information Science
William Scott Curtis, Silver Lake
Gwendolyn Elizabeth Davis, East Cleveland
Najila Emadi, Columbus
Samuel Robert-Taft Maxwell, Columbus
Suryanu Sen Nyo, Upang Pandang, Indonesia
Khe Seing Ong, Surabaya, Indonesia
Christopher James Roda, Willoughby
Tamara Lynn Schilling, Galion
Robert Eric Slawson, Worthington
Joseph Benjamin Smith, Peninsula
Jay Albert Towse, Hilliard
Michael L. Zachman, Marion

Bachelor of Science in Electrical Engineering
Mohamed Ayid Al-Majali, Ksar, Jordan
James Richard Ambrose, Euclid
Matthew Timothy Bard, York, PA
Brian James Barrett, Columbus

Jeffrey Eugene Bauman, Westerville
Gary Lee Brannon, Centerville
Marc Carlo Carretta, Mansfield
Lee Allen Clark, Napoleon
Thomas Bruce DeVore, Westerville
Hung Duc Do, Columbus
David Paul Duschek, Worthington
Joyce Ann Fichtner, Hartville
Joseph Theodore Heaphey, Granville
Larry Eugene Heisler, Tamaqua, PA
Greg Allen Kattenick, Uniontown
Ronald John Koch, Akron
Jeffrey Alan Lauro, Akron
Anthony Charles Lensing, Columbus
Patrick John Limpach, Ottawa
Douglas Edward Loyer, Worthington
Kerry George Maligan, Warren
Steven Edward Meehanbrink, Marysville
Daniel Laurence May, Granville
Glenn Patrick McCarthy, Columbus
Brian Joseph Miller, Middleburg Heights
Christopher Aaron Miller, Columbus
Matthew Allan Moon, Columbus
Mark James Morsch, Columbus
Jonathan M. Naft, South Euclid
Patrick Joseph O'Shaughnessy, Warren
James H. Oxley, Columbus
David Scott Persinger, Canton
Dennis Joseph Peterlin, Willoughby Hills
Joyce Marie Ritzman, Norton
Hernan Alex Rosas, La Paz, Bolivia
Stephen Glenn Rudie, Chillicothe
Satoshi Sakurai, Worthington
Michael Allen Schy, Montville, NJ
Tania Denise Steurin, Van Der Bil Park, South Africa
Timothy Lee Susterman, Brecksville
Chun-Ki Tan, Hong Kong
Anthony Robert Vasie, Jr., Rochester, NY
Nhan Huy Vuong, France
Scott Joseph Williams, Lima
Ping Chak Wong, Hong Kong
Hon Ching Yip, Hong Kong

Bachelor of Science in Engineering Physics
Charles Michael Cales, Reynoldsburg
Robert Andrew Petroc, Strongsville

Bachelor of Science in Industrial and Systems Engineering
Margaret Suzanne Chappell, Wintersville
Nancy Christine Chico, Kettering
Michelle Colleen Clotts, Grove City
Peter Joseph Colombo, Aurora
Denise Susan Cook, Bellevue
Bradley Joseph Gall, Urbana
Sheryl Stephanie Jackson, Columbus
Bradley Harlan Laser, Mansfield
Jonathan Michael Linn, Cleveland
Kassim Abdul Mahdi, Freeport, Sierra Leone
Laura May McDonel, Northwood
Scott H. McLaine, Tipp City
Jeffrey Paul Oneth, Temple, TX
Anh Kim Pham, Columbus  
David Peter Resaret, Ellicott City, MD  
Don Scott Rimer, Vaughnsville  
David Wesley Rubadoux, Toledo  
Debra Lynne Schomer, Lima  
Marta Alicia Stayonoff, Troy  
Alice Anne Stelyn, Dayton  
Monica Anne Topp, Centerville  
Nancy Jean Trochill, Elkins, WV  
Stephen John Valachovic, Columbus  
Ronald William Zesch, Cincinnati

Bachelor of Science in Mechanical Engineering
Kevin John Beemiller, Chardon  
James Carson Bell, Toledo  
Gerald James Clark, Granville  
Donald Melvin Cooperider, Lancaster  
Stephen Michael Curtis, Canton  
Mark Samuel DeFazio, Columbus  
David Arthur Doering, Wapakoneta  
Kent Anthony Enzheimer,  
Camp Springs, KY  
Scot David Geiger, Newark  
Pamela Sue Greenwald, Mayfield Heights  
Edward Bryan Greer, Delaware  
Darren Todd Harville, Springboro  
Robert Keith Hassen, Swanton  
Terrell Ann Holloway, West Chester  
Eric Martin Hutchinson, Solon  
Bevin Samuel John, India  
Thomas Anthony Jurlina, Parma Heights  
Kenneth James Karbon, Parma  
Karen Ann Meister, Columbus  
Charles John Melnik, Cleveland  
Craig David Miller, Columbus  
Richard Alan Mohar, Lakewood  
Kirk Ernest Neet, University Heights  
Hai Thanh Nguyen, Painesville  
Michael Channing Pfeil, Milford, MI  
William Douglas Pordan, Fairview Park  
Victor Alan Reinhart, Cleveland  
John Edward Rohde, Brunswick  
Michael Lawrence Schaffer, Cincinnati  
Jill Jeanine Schaffer, Alliance  
Patrick John Smith, Hudson  
Andrew Anthony Spicer, Lima  
Pan Lee Stoffer, Lorain  
Jenny A. Wheeler, Shelby  
Grant Richard Wilson, Alliance  
Steven Richard Wood, Mansfield  
Randy Alan Wright, Lancaster

Bachelor of Science in Metallurgical Engineering
Bokabo Kalio, Port Harcourt, Nigeria  
Chee Hoong Lee, Kuala Lumpur, Malaysia  
Kenneth Douglas Ridgeway, Bethesda  
David Lee Runner, Palestine

Bachelor of Science in Welding Engineering
Robert Quentin Adkins, Lancaster

School of Architecture
Bachelor of Science in Architecture
Housam Abdulrahman Abdulrahim, Damascus, Syria  
Jack Lewis Bergaehzer, Tiffin  
Ross O. Bigelow, Williamsport, PA  
Michael Sean Healy, Columbus  
Arthur Paul Morris, Campbell  
Jeffrey Michael Reker, Medina  
Dean A. Stump, Oberlin  
Dzung Hoang Thai, Columbus

Bachelor of Science in Landscape Architecture
Jeffrey Scott Baker, Van Buren  
Joni Lynn Fortkamp, Dayton  
Thomas Whitson Henley, Bay Village  
John Phillip Jacobson, Sebago Lake, ME  
Troy Allan Richards, Barrington Hills, IL  
Jerry E. West, Mt. Gilead

College of Home Economics
Dean: Lena Bailey

Bachelor of Science in Home Economics
Tamra Ruth Bolding, Newark  
Deborah J. Brinkley, Lewisburg  
Emily Pintz Bush, New Concord  
Lori Lee Campbell, Kettering  
Diane Marie Del Basso, Richmond  
Barbara Lynn Dressler, Copley  
Charlene Rainett Dannon, Mansfield  
Michelle Allison Dzurko, Mansfield  
Lisa Sue Everman, Columbus  
Susan Irene Flynn, Akron  
Robert Alan Frabotta, Mayfield Village  
Leslie Kay Geldine, Toledo  
Dee-Ann Gleisinger, Mansfield  
Jane Ann Hanna, Marietta  
Caroline Lenora Hoyatter, Unometown  
Angelene Marie Jamison, Columbus  
Julie Louise Johnson, Columbus  
Ginger Kei Jones, Pemberville  
Diane Marie Jost, Columbus  
Catherine Margaret Kane, West  
Worthington  
Kristen Melanie Keller, Cleveland  
Heights  
Marita Jo Kowit, Mayfield Heights  
Linda Kay Kruger, Beavercreek  
Hwe-Nah Lin, Columbus  
Kimberly Suzanne Loeb, Columbus  
Laura Lynn Marryott, Columbus  
Lynn Ann Nicolai, Bay Village  
Sherri Lynne Orth, Columbus  
Kimberly Renee Pierce, Cincinnati  
Guilherme Saggese Pinto, Rio de Janeiro, Brazil  
Marcia Ann Polas, Poland  
TaeRell Derry Poling, Columbus  
Celis Mabel Reyes, Zanesville  
Marie Anne Ridgeway, Columbus  
Bruce Howard Roth, Beachwood  
Elizabeth Anne Rumon, Worthington  
Maria Christina Salmoney, Seattle, WA  
Tammy Lynn Sergent, Lorain  
Mary Barr Sexton, Grove City  
Laura Jean Smith, Perrysburg  
Laura Jean Sudkamp, Olmsted Falls  
Toni Ann Thompson, Worthington  
Rebecca Louise Vazquez, St. Clairsville  
Jill R. Virts, Columbus  
Tina Marie Wells, Woodfield  
Ellyn Marie Whitehead, Columbus  
Marilyn Lorna Wilson, Columbus  
Jennifer Ann Zeck, Vermilion

Bachelor of Science in Hospitality Management
Gary Mark Behan, Cincinnati  
Janis Marilyn Kell, Bay Village  
Sheila Kay Lamb, Monroeville  
John C. Miller, Somerset  
Dennis Kenneth Penick, Shadyside  
Bradley Paul Ziessler, Columbus

Bachelor of Science in Nutrition
Joy Dorothea McFarland, Columbus

College of Medicine
Dean: Manuel Tzagournis, M.D.

Doctor of Medicine
Keith Dinklage, Cincinnati  
B.A. (Southern Methodist University)  
James R. Wolfe, Olivesburg  
B.S. (College of William and Mary)

School of Allied Medical Professions
Bachelor of Science in Allied Health Professions
Terri Lynn Adams, Swanton  
Laurie Jane Andrews, Kettering  
Mary kay Barnes, Euclid  
Carlene Elizabeth Bennett, Sylvania
College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Carmen Theresa Beebe, Columbus
Julia Ann Bloomfield, Chesterville
Kimberly Ann Edwards, Columbus
Melissa Ann McClaren, Caledonia
Kimberly Laineen Mossbarger, Mt. Sterling
Monica Marie Potsic, Newton Falls
Constance Elaine Vasser Roser, Delaware
Mary Jean Vickers, Columbus
Carol Ross Watkins, Mansfield

College of Pharmacy

Dean: John M. Cassidy

Doctor of Pharmacy

James Thomas Morris, Coshocton

Bachelor of Science in Pharmacy

Lisa Ann Marie Darvahian, Youngstown
Douglas Edward Gallo, Columbus
Ayad Kamal Ghani, Dublin
Thomas Christopher Howe, Newark
James William Jones, Columbus
Lisa Ann Joseph, Zanesville
Seyoum Kifle, Cincinnati
Judith Ann Newcomb, Conneaut
Isaac Jerry Pearson, Jr., Cincinnati
Pamela Susan Purtee, Columbus
Francine Fay Turose, Tiffin

Graduates with Honors

Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class
Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with circulatory distinction and dedication to high educational goals.

College of Science

Certificate of Post Baccalaureate Circulation Technologist

Robert Norman Forest, Ashland

B.S. (University of Maine)

Ann Marie Kozloski, Bay Village

B.S. (Eastern Kentucky University)

Jeffrey Stephen Biirrs, Columbus
Victoria Ann Briggs, Columbus
Laura Johnson Burge, Worthington
April Louise Cribfield, Mayfield Heights
Wendy Lee Davis, Frederick, MD
Rita Jean Dechant, Oberlin
Leigh Ann Donahue, Canton
Catherine Marie Dreheraus, Cincinnati
Kathy Jo Duncan, Loudonville
Karen Marie Finke, Cincinnati
Nicole E. Forman, Dayton
Meg Marie Forthofer, North Ridgeville
Steven Michael France, Forest
George John Geogiani, Steubenville
Ruth Ann Gilliland, Portsmouth
Tracy Beth Hall, Kent
Dana Jo Hare, St. Clairsville
Julie Ann Jarvis, Akron
Denise Marie Keim, Elyria
Mary Louise Kennedy, Bay Village
Laura Ann Kern, Norton
Melissa Ann Kesler, Columbus
Christine Anne Lachman, Hartville
Susan Mary Lamanita, Toronto
Danelle Marie Macke, Dublin
Alice Marie Maie, Columbus
Annette Helen Marheliis, Mansfield
Teresa M. Miller, Chillicothe
Steven James Mitchell, Fairport Harbor
Nancy Marie Monning, Ironont
Michael Henry Newhart, Belleaire
Cynthia A. Palmer, Columbus
Teresa Shuler Patterson, Jackson, MI
David Woodburn Phelan, Reynoldsburg
Lisa Ann Potts, North Canton
Joanne Marie Prushing, Trenton
Shelly Shaffer Readon, Aurora
Jeanne Marie Reilly, Upper Arlington
Susan Marie Rice, Warren
Melissa Lynn Richardson, Fairfield
Angela Judith Rosenstock, Westerville
Cynthia Kay Samlow, Napoleon
Maria Terese Sansky, Kirtland
Sue Shearan, New Lexington
Shari Lynne Sigler, New Carlisle
Cynthia Lynn Situleada, Bethel Park, PA
Gina DiFranco Smith, Worthington
Amy Lynne Stockslager, Tipp City
Dorothy Irene Sruman, Fairview Park
Ronald Gerard Thornburn, Cincinnati
Pamela Jane Tyler, Canton
Pamela Jean Vasiloff, Avon Lake
Jocelyn Denise Wagley, Beavercreek
Robert Owen Whittington Jr., Columbus
Sandra Kay Willer, St. Marys
Daphne Michele Ziegler, Niles

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Molecular Genetics

Janet Ann Gianelos

Summa Cum Laude with Distinction in Biology

Kenneth James Helal

Summa Cum Laude with Honors in the Liberal Arts

Lisa Marie Bohman
Curtis Lee Kovach
Maria Diane Magisano
Howard Steven Manhan
Terese Marie Tiburzio
Jacqueline Tonie Tregellas

Summa Cum Laude

Christopher Allen Bergsman
Lon Marie Capretta
James Thomas Crookston
Julie Anne Hearnon
Thomas Evan Lowenkamp
Thomas Richard Miller
Carrie Jane Niese
Linda Neilkirk Piatt
Susan Marie Rice
Resa Ann Robinson
Marianne Scheidder
Cynthia Lynn Situleada
Nancy Ann Stecklein
Timothy Newton Taylor
Rebecca Sue Wettig
Grant Richard Wilson

Cum Laude with Distinction in Horticulture

Ann Marie Chanon

Cum Laude with University Honors

Nancy Lee Anderson
Nancy Christine Chico
Pandol Lee Collatos
Jennifer Ruth Haenicke
Stacy Anne Hickenbottom
Keven K. Kenison
Todd Alan Metcalf
Mark James Moncher
David Michael Rouh
Loren Russell Williams

With Honors in the Liberal Arts

Mary Louise Gallagher
Jon Christopher Hockman

819
With University Honors

Peggy Louise Halley
Vera Clarice Walker

Cum Laude

Jay E. Azbell
Joyce Lynn Beiden
Emily Pintz Bush
Janeen Marie Calame
Beverly Ann Caley
Kevin Paul Clark
Jennifer Lynn Cofer
Karen Ann Cook
Kathleen Lee Crowley
Joseph Lee Daubenmier
Cynthia Ann Dean
Jay Michael DeLong
Dana Ann Elliott
Phillip Dale Farnlacher
Kyra Marie Fleming
Bradley Joseph Gall
Kristin Ann Garrett
Karen Louise Goetz
Ann Catherine Grimm
Tracy Beth Hall
Marcelle Gail Harrenberg
Cynthia Ann Hassel
Joseph Theodore Heaphey
Timothy Allan Holkenborg
Steven M. Hostetter
Cheryl Lynn Hutchins
Andrew Corland James
Nancy Lee Jansen
Julie Louise Johnson
Lisa Ann Joseph
Tracey Anne Judy
Kenneth James Karbon
Douglas John Kay
Melissa Ann Kessler
Kyle Bryan Klingler
Demetrios Xenophontos Koulas
Daniel Ray Lane
Michael Wayne Lehman
Mary Elizabeth Mahne
Alice Marie Maite
Sarah Helen Meirson
Jeffrey Lynn Mengerink
Steven James Mitchell
Richard Martin Morgan
Randy Scott Mowrer
Andrea Jeanne Mustard
Maxwell Joseph Nichols
Jacqueline Gail Painter
Paul Allen Pepper
Laura Marie Pisciotta
Theodore L. Potts
Mia Angela Prince
Joanne Marie Prushing
Shelly Shaffer Readon
Don Scott Rimer
Jerry C. Rockwell
Donna Lynn Romell
Constance Elaine Vasser Ross
Satoshi Sakurai
Mark Aaron Sayers
Joyce Marie Schulze

Nancy M. Smathers
Diane Marie Stavole
Tow-Ee Tan
Nancy Jean Trochil
Michele Renee Vogt
Deborah Kay Wenas
William Howard Wintrrow
THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-NINTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, April 7, 1989

The Board of Trustees met at its regular monthly meeting on Friday, April 7, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**       **       **

Minutes of the last meeting were approved.

**       **       **
April 7, 1989 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on April 7, 1989, at 1:30 p.m. He requested the Secretary to call the roll.


---0---

Mr. Immke announced the appointment of the following persons to the Nominating Committee:

Shirley D. Bowser, Chairperson
Hamilton J. Teaford
John J. Barone

---0---

President Jennings:

I would like to note a couple of personnel matters. As you probably have seen, Jack Hollander, the Vice President for Research and Graduate Studies, has announced his retirement, Jack Hollander, effective at the end of August. We will be reviewing that position and starting a search committee shortly. Jack has been of great service to the institution and we will be sorry to see him go. But he is age 62, and has been expecting to retire at this stage for quite some time.

I would also like to introduce to you the new Director of the University Hospitals, who is with us this afternoon, Reed Fraley. He comes to us by way of Dallas, but is an Ohio State alumni and used to work in our Hospitals. Reed, thank you for coming and we appreciate your being here.

---0---

PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S AND BEYOND

President Jennings:

We talked about demographics last time, and I thought it perhaps important that we also chat about what the land-grant mission of the University means. I sent you just a rough draft of a paper I've done on the perspective of the land-grant with a little historical outline on it. I don't want to make this a long conversation but just highlight a few points.

I think the important issues here are that it was the land-grant act which established the fact that government has a responsibility for education. That was a radical idea. It started really with the Northwest Ordinance then got dropped for a while. This ordinance was the first document to assign to government the responsibility for education and particularly higher education. This was basically in recognition that education is what economists call a public good with externalities. That is to say that we, as members of society, benefit from other youngsters and other people receiving an education. We benefit economically but we also benefit in a context that we live in a democracy and a fundamental ingredient of a democratic society is an educated and informed voting populace. Thomas Jefferson started the University of Virginia. Now, Jefferson's definition of people is a little different than what we would have today, but nevertheless that thought got started and incorporated into
April 7, 1989 meeting, Board of Trustees

PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S AND BEYOND (contd)

President Jennings: (contd)

the land-grant. And, I note, that that was not really an idea that was without controversy. We think of it today as something normal and ordinary -- government taking responsibility, but we should note that the land-grant act was originally put forth in the 1850's and originally vetoed by President Buchanan. Public education had been incorporated into the Northwest Ordinance but had floundered a great deal after that.

The second thing that came with the land-grant was this idea that education should be for the masses, independent of one's social standing and one's financial standing. That it was not just for the elite, but it was for everybody. And again, this was not a model that was accepted in the United States nor in Europe, and to some extent not accepted today. Some of our problems are dealing with a portion of the community who would claim that we don't have a responsibility for certain elements of society. But more on that later.

Evolving out of that came this notion that you should make higher education financially available in three ways. One with low tuition; one with some sort of financial aid; and a third-leg of this accessibility stool being work opportunities. That developed in the late 19th Century and is still true today. It is very interesting also, that even today the most expensive institutions will have some sort of financial aid so that they can make the claim that their institution is affordable by anybody qualified. Even the most expensive institutions today make that claim. I would challenge those statements, but there is an awful lot of financial aid in institutions now that are either private or very high priced.

The third concept that the land-grant introduced was what I and a lot of people would call "local control." Again, a fairly radical notion by world standards. Most of the major universities of the world are national universities with a mission designed to deal with national issues. Whereas in the United States we have no national universities. We have some who will address national issues and Ohio State will address nation/international issues, but the control and the mission is local. In our case, our responsibility is to the State of Ohio. And insofar as that has effects on the nation or the rest of the world, that is a byproduct of our responsibility, but our responsibility nevertheless is to the State of Ohio.

The fourth concept that the land-grant introduced was this mixing of professional and liberal education. Most of the conflicts that you see in a university, most of the tensions you see, most of the problem areas you see, most of the budget issues are this inevitable trade-off between professional training and liberal education. We consistently have that, but that is a very new notion to the world of higher education. Professional education historically was an apprenticeship system that wasn't necessarily involved with a college education. Indeed, most of your early attorneys, early physicians were not college educated people. They were people who were apprenticed to another professional. Indeed, a lot of the teaching techniques you see going on today in the professional schools, particularly at the graduate-level, deal with that apprentice point of view. Sophia is going through some of that right now in the College of Medicine, where she is really not going to class, but is making rounds with a group of doctors. This is very similar to the old fashioned apprenticeship system. We, for the first time in the land-grant, mixed those two issues.
April 7, 1989 meeting, Board of Trustees

PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990’S AND BEYOND (contd)

President Jennings: (contd)

Another aspect that got slowly introduced was the issue of basic research in science and technology. In a free enterprise market economy, particularly, the private sector could not accept the risks involved in delving into some basic research activities where the chances of it being profitable are very, very slim, or if they are profitable, the profitability is very, very long-term. It became ever more clear as society evolved that that basic research should go on in universities so that the individual and the institution could take those risks without affecting society. And of course, in the land-grant that research originally took the form of agricultural research, because agriculture was 80% of our economy at that time. But that, of course, is now expanded out way beyond agriculture in recognition that basic research becomes part of the institution. As that evolved, it became also a tenet that it was not only the risk taking, but research was a necessary ingredient not only to provide the economy with research results, but to stimulate the improvement of teaching. The teaching and research became an integrated and integral set of activities. Good classroom teaching required individuals who were up to date on their field, who were excited about their field, and who were looking at the very frontiers of a particular subject matter that they were teaching. In otherwords, teaching and research were recognized, were synergistic and accomplished the same thing.

One of the amusing things, although not quite so amusing, is to look at Ohio State’s Board Minutes in the ’30’s -- when we think we have budget problems today, our budget issues are minor. One of the great debates then was that we really ought to get rid of agricultural research, because look at all of the money we are spending and we really don’t need any more. After all, it did appear that agricultural advances of the early 20th Century were so great that little was left to do! But, of course, basic research was going on and a great deal more has happened in that. Field after field can be described in that way.

Associated with this came this service-mission that we recognize today and recognize in virtually every industry, where one of our missions becomes that of taking our research results to the public, to the community-at-large and implementing those research results so that the public benefits directly from the research activity we are doing. Again, that got started with the agriculture community and cooperative extension, but today it has spread to virtually every activity we do. I might add though, I think it is fair to say that still the most successful service element of the institution, of any institution, is the agricultural activity. We are doing a better and better job in business and government and so forth, but still today that service is an important element.

Now these concepts have evolved into a system of higher education that has some great similarities from state to state. There are different governing bodies in every state. And there is anywhere from a governing body in higher education covering all the institutions in the state, to individual independent institutions. But what has developed in our country now is that virtually every state has three levels of higher education, the community colleges, the four-year institutions, and the comprehensive research institutions. And while there are differences across states, that general breakdown is pretty clear, and pretty well developed right now. Community colleges are strictly local, I mean local to the city or county. It is two-years, it is has the duel mission of technical education for a particular occupation or the first two-years of liberal education that would transfer to a baccalaureate degree.
The four-year institutions take the form of a baccalaureate program with virtually no graduate activity and virtually no professional activity. And then the comprehensive institution is the institution with undergraduate, graduate, and all professional activity.

In our Ohio system those three categories are there, but they are a little more blurred, particularly between the four-year and the comprehensive. The community colleges are a little bit blurred as well, because the technical schools are often separate institutions from the liberal arts institutions. They are blurred between the four-year and the research, because many of the four-years have graduate programs and professional programs. It is also blurred because this State has only one comprehensive institution, where as most other states have two or several -- Michigan and Michigan State; Texas and Texas A & M; Georgia and Georgia Tech; Cal-Berkeley, Cal-Davis, and Cal-UCLA; Washington and Washington State; and so forth. Whereas we have only one. In most states that dual flagship of comprehensive institutions -- one is the land-grant which is primarily agriculture, engineering; whereas the other traditional liberal arts is the heavy in liberal arts, medicine, and usually law. Business flops back and forth between the two. That, incidentally, is why Ohio State is the biggest institution in the country, not because our departments are particularly large, most of departments are small by big institution standards. The reason we are big is that virtually everything is here at Ohio State University. All of these activities are separate in most other states. Minnesota, of course, is the other big institution, but it is also the other large state that sums up their entire flagship activity into one institution.

Finally, the debate we are going through on the budget in this State is fairly typical of all states. This state historically has chosen to be a high tuition state. Our tuition at Ohio State is moderate by Big Ten standards, but the state is a high tuition state and has been historically. We are today, for example, 41st in the nation per capita support for higher education. We are 7th in the nation in terms of tuition on average at the institution, and relied mostly on financial aid, but also relied on a low college going rate. We have also been in the 40's and 30's in the terms of the percentage of high school graduates going on to college. I think the conventional wisdom is that the reason is is that there have been so many job opportunities in the heavy industry that are high paying and offer career opportunities, 30 or 40 years with the auto industry, or 30 or 40 years with the steel industry. That probably isn't the case today. Of course we see, as we saw last time, our college going rate increasing. We need not shut that off with high tuition as has been the case in relative times gone by. That is of course the debate that we are trying to get the General Assembly to recognize.

(See Appendix XXVIII for complete text on "Perspective on Land-Grant Universities," March 31, 1989, page 913.)
HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its standing committees met on March 16. We got our usual fine report on the medical staff activities from Dr. Clausen, Chief of Staff. Mr. Holder, who is an attorney on Dr. Tzagournis's staff, informed us that the Hospitals experienced a remarkable year with regard to malpractice claims. Indeed, the Hospitals paid only $36,000.00 in malpractice claims for the entire year. While I would like to claim that that is because they had outstanding lawyers, I would suggest to you that is not the reason. The reason is because they had outstanding and careful doctors and staff. Indeed, there was no basis for malpractice claims.

We received a report on quality assurance activities from the Department of Anesthesiology which then resulted in a very lengthy debate on who controls operating room temperatures. I think, as we expected, surgeons do by the way. During the course of that report, Mr. Lazarus raised a broader issue of a sort of hospitals standard way to handle problems. Mr. Fraley should note that whenever there is a problem, we form a committee to handle it. Dr. Tzagournis has agreed to study this issue and bring us a recommendation on that to our next meeting.

Dr. Cornwell presented a summary of the research programs in the College of Medicine and the Hospitals, which indicated that we are making some substantial progress in increasing the amount of research to the appropriate level for a hospital our size. We are not there yet, but we have made very significant progress.

We received the financial report and reviewed and accepted the Touche Ross Audit Report, which as you know, did not disclose any material weaknesses. Mr. Perce! produced a report on our Accounts Receivable problems. Currently, Accounts Receivable at the Hospitals are in an excess of 100 days and that number has been increasing. Compared to our performances with other hospitals, with inside and outside of the Big Ten, while we did compare favorably with some of those hospitals, it was clear that significant improvement is possible in that regard. The administration was asked to determine whether our slow collection was due to state policies or to the practices of local third party payers and to what extent, we at Ohio State, could improve that simply by having a better system.

We also heard a comprehensive report from Dr. Gabbe of the Department of Obstetrics and Gynecology about that Department since he joined it less than 2 years ago. He also showed us clear progress, particularly in the area of increased research. The most remarkable thing that happened at the meeting, however, was that Mr. Nichols introduced three hospital employees who had achieved perfect attendance, one for 11 years, one for 16 years, and one for 17 years. I still do not believe that, but there they were. We also officially expressed our thanks to Mr. Nichols for the outstanding job he did as the interim director. That completes my report, Mr. Chairman.

--0--
April 7, 1989 meeting, Board of Trustees

President Jennings:

Mr. Chairman, one item on the Hospitals Board while we are there. With your permission, I would like to recommend to you the Appointment of Judge James L. Graham to be appointed as a general public member of the University Hospitals Board for a term of three years effective May 1, 1989.

Background

Honorable James L. Graham

The Honorable James L. Graham is a United States District Judge in the Southern District of Ohio, Eastern Division. Judge Graham received his B.A. and J.D., summa cum laude, from The Ohio State University.

Judge Graham was engaged in the private practice of law, specializing in litigation. He was appointed to the United States District Court for the Southern District of Ohio in 1986.

UNIVERSITY HOSPITALS BOARD APPOINTMENT

Resolution No. 89-80

Synopsis: The Academic Affairs Committee recommended the confirmation and approval of an individual to the University Hospitals Board.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

WHEREAS Judge Graham has been highly recommended for appointment as a Hospitals Board Member:

NOW THEREFORE

BE IT RESOLVED, That Judge James L. Graham be appointed as a general public member of the University Hospitals Board for a term of three years, effective May 1, 1989.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, with an abstention by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by voice vote.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investment Committee heard the Endowment Investment Report which showed a market value of $263,182,760 as of March 17.

We also reviewed and accepted the recommendation of the University Treasurer for changes in the Asset Allocation of the Endowment Funds Investments. The changes which are summarized in the Board resolution we are recommending
April 7, 1989 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

Mr. Kessler: (contd)

represent a shift in policy to having index funds as a central core of both the equity and fixed income assets, with investment managers selected to provide value added beyond the index funds. In addition to placing $10 million in the broad domestic index fixed income fund, we are recommending placing $30 million in an S & P 500 index fund, $15 million in a small capitalization index fund, and $10 million in an international equity index fund. The committee is also recommending that the Treasurer bring back to this Board provisions to the University’s Investment Policy which will incorporate these new asset allocations as well as authorize the Treasurer to allocate new monies received by the Endowment as 60% equity index fund, 20% bond funds, and 15% cash and equivalents. We are recommending this resolution to change the Endowment asset allocation and Investment Policy for your approval.

Mr. Berry:

Jack, I heard you to say 20% bond index fund, you met 25%, didn’t you?

Mr. Kessler:

I do mean 25%.

Mr. Teaford:

I just have one question. There is at least one area in which that violates the policy of the Board. I agree with this recommendation but do we need to somehow amend the policy with regard to international investment?

Mr. Ihrig:

Mr. Teaford, the second resolve, it is on the second page, is directed to bring back a revision to the investments policies to so amend. That will be done in a timely manner before the actual investments are made.

Mr. Teaford:

Okay, fine.

Mr. Nichols:

There is also a provision, Mr. Teaford, in the existing Board policy that allows the Board to make exceptions by Resolution. So this would also fit into that section.

Mr. Kessler:

The Investments Committee also reviewed the report of the University audits for 1987-88 with representatives of Touche Ross, the auditors, as well as Parnes Company, the external auditors. The University has received unqualified opinion for 1987-88 from Touche Ross. This review covered compliance as well as control issues noted in the audit with the responses from appropriate University staff. The audit was thorough and the issues are being appropriately addressed by the staff. We found no issues of unusual concern to bring to the Board's attention, and we
INVESTMENTS COMMITTEE REPORT (contd)

recommend the Board approve the resolution accepting the report of audit recommendations and responses for 1987-88.

(See Appendix XXVIII for complete text of The Ohio State University Endowment Summary, March 17, 1989, page 923.)

--0--

Mr. Kessler:

The Investments Committee is recommending the following resolutions for approval:

ASSET ALLOCATION ADJUSTMENTS TO THE ENDOWMENT FUND
Resolution No. 89-81

Synopsis: The Investments Committee recommended the approval to make asset allocation adjustments to the Endowment Fund.

WHEREAS the Board of Trustees enlisted the services of Ennis Knupp & Associates to analyze the University's current Endowment investment policies; and

WHEREAS Ennis Knupp & Associates made several recommendations regarding the level of investment risk incurred, how risk is controlled and diversification of the Endowment portfolio; and

WHEREAS it is the belief of the Investments Committee and the Treasurer that the Endowment should continue to follow its goal of preserving the purchasing power of the Endowment and to achieve this by following a strategy emphasizing total return with an orientation towards achieving this goal over the long term; and

WHEREAS it is important that the orientation towards achieving this goal be a long-term one; and

WHEREAS the Endowment should further diversify into sectors of the market not currently being utilized; and

WHEREAS it is recommended that the Endowment move towards establishing a core position in index funds as a way of tracking the general market place while utilizing the talents of investment managers as a method of enhancing returns around the core; and

WHEREAS it is desirable that a method of allocating new cash coming into the Endowment be utilized to maintain the desired asset distribution of the Endowment:

NOW THEREFORE

BE IT RESOLVED, That upon recommendation of the Investment Committee of the Board of Trustees that the Treasurer be empowered to make the following changes to the Endowment:

A. Equities
Sell all shares of the Neuberger and Berman Energy Mutual Fund.
Reduce allocation to the Chicago Corporation and Siebel Capital Management, Incorporated by $7.5 million each.
Place $30 million in a S & P 500 index mutual or co-mingled fund.
April 7, 1989 meeting, Board of Trustees

ASSET ALLOCATION ADJUSTMENTS TO THE ENDOWMENT FUND (contd)

Place $15 million in a small capitalization index mutual or co-mingled fund.
Place $10 million in an international equity index mutual or co-mingled fund.

B. Fixed Income
Place $10 million in a broad domestic index mutual or a co-mingled fund.

C. Allocation of New Money
As new money enters the Endowment, it will be allocated in approximately the following manner:
60% equity index funds
25% bond index fund
15% cash and equivalents

BE IT FURTHER RESOLVED, That the Investments Policy be revised to permit investments in an international equity index mutual or co-mingled fund and that the Treasurer be directed to bring to this Board specific revisions to incorporate this change, and any other appropriate changes to the Investments Policy.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

ACCEPTANCE OF THE REPORT OF AUDIT RECOMMENDATIONS AND RESPONSES FOR 1987-88
Resolution No. 89-82

Synopsis: The Investments Committee recommended the acceptance of the report of audit recommendations and responses for 1987-88.

WHEREAS in August 1985, with the approval of the Auditor of State, The Ohio State University entered into a four-year agreement with Touche Ross and Company for an annual audit of the University for fiscal years 1985-86 through 1988-89; and

WHEREAS the Touche Ross audit of the University for 1987-88, meeting the requirements of the Auditor of State, has been received and the accounts, records, files, and reports of the University have been found to be in satisfactory condition, but certain recommendations have been included in the audit report; and

WHEREAS the auditors’ recommendations have been studied by the appropriate University offices, and procedures and responses have been developed as a result of the recommendations:

NOW THEREFORE

BE IT RESOLVED, That the report of the Touche Ross and Company audit recommendations for The Ohio State University for 1987-88 (including separate sections for the University Hospitals, the Development Fund, the Dormitory Revenue Bond Funds, the University Housing Commission, and the WOSU Stations and including the Ohio Revised Code compliance letter) and the management responses to the recommendations be accepted.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
April 7, 1989 meeting, Board of Trustees

**ACCEPTANCE OF THE REPORT OF AUDIT RECOMMENDATIONS AND RESPONSES FOR 1987-88 (contd)**

(See Appendix XXX for complete text of Touche Ross Auditors Report, for the year ending June 30, 1988, page 933)

--0--

**ACADEMIC AFFAIRS COMMITTEE REPORT**

Ms. Casto:

This morning in the Academic Affairs Committee we meant with Barbara Newman who gave us a report on the Action Plan. Which was the recruitment and retention of black students here at Ohio State University.

We also heard from James Bishop and his comments on the Young Scholars Program. It was really interesting the amount of students that they are getting involved in and really trying to keep their interest.

We also heard from Sue Blanshan on the University Senate Committee for Women and Minorities. I think that all of these programs are benefitting Ohio State.

(See Appendix XXXI for complete text on the Summary of Report on Affirmative Action, page 1019.)

--0--

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY**

Resolution No. 89-83

Synopsis: The Academic Affairs Committee recommended the approval of the following amendments to the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on January 28, 1989, and March 4, 1989, as follows:

**AMENDED RULES**

3335-5-19 Faculty.

As used in these rules the term "faculty" shall include persons appointed by the board of trustees with regular, regular clinical, auxiliary, and emeritus faculty titles on full- or part-time appointments, with or without salary.

(A) unchanged.
"Regular clinical faculty": persons with the titles of professor of clinical (department), associate professor of clinical (department), assistant professor of clinical (department), and instructor of clinical (department), who serve on appointments totaling fifty per cent or more service to the university. Regular clinical faculty appointments are made only in the following departments of the college of medicine: anesthesiology, family medicine, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, physical medicine, preventive medicine, psychiatry, radiology, and surgery.

The number of persons holding regular clinical faculty titles in each department cannot be greater than one-third the number of persons holding regular faculty titles in that department. Individuals appointed to the regular clinical faculty are limited in governance at the departmental and college levels, but may not participate in promotion and tenure matters of regular faculty.

Balance unchanged.

3335-5-471  Steering committee.

(A)  Membership

The steering committee shall consist of fourteen members.

(1)  unchanged.

(2)  Four students.

(a)  The president of the council of graduate students. The vice president of the council of graduate students may attend steering committee meetings with full voting privileges if the president cannot attend.

(b)  The president of the inter-professional council. The vice president of the inter-professional council of graduate students may attend steering committee meetings with full voting privileges if the president cannot attend.

(c)  The president of the undergraduate student government. The vice president of the undergraduate student government may attend steering committee meetings with full voting privileges if the president cannot attend.

(d)  One appointed by the undergraduate student government from the undergraduate student membership of the senate. The term of service is one year. The vice president of the undergraduate student government may attend steering committee meetings with full voting privileges if the appointed member cannot attend.

3335-5-488  Committee on honorary degrees.

(A)  Unchanged.

(B)  Duties and responsibilities.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(1) Establish definite standards of scholarly attainment or of the distinctive applications of such attainment in the service of society by which to judge the qualifications for this honor.

(2) Establish procedures for the nomination of potential candidates for honorary degrees.

(3) Receive nominations concerning persons who might be considered for an honorary degree.

(4) Review thoroughly the achievements and qualifications of all persons nominated.

(5) Report to the university senate for its consideration and action such persons as have received no fewer than four affirmative votes from the committee membership.

(6) Keep all deliberations and votes confidential except where publication is necessary for official purposes.

(7) Deliver the full dossier of each candidate and the nomination report of the committee on honorary degrees to the secretary of the university senate who shall distribute the nomination report to all members of the university senate.

Balance unchanged.

3335-47-11 Regular clinical faculty ranks.

The titles of regular clinical faculty are professor of clinical (department), associate professor of clinical (department), assistant professor of clinical (department), and instructor of clinical (department). Individuals in this track may have a full range of responsibilities to appropriate academic units with emphasis on patient care and clinical teaching activities. Clinical activities for faculty members in this category are to be included in approved practice plans.

(A) Appointment criteria

Initial appointments, or transfer, to the regular clinical faculty will be made for individuals with the following experience or credentials:

(1) They are strict or geographic full-time faculty members in clinical departments in the college of medicine, as defined by the college of medicine.

(2) They engage in activities which consist primarily of patient care and clinical teaching and supervision.

(3) They have the appropriate educational background and credentials to engage in the activities outlined in paragraph (A)(2) of this rule. Formal requisite: M.D. degree or equivalent qualification.

(4) They are essential to the continuing mission of the college of medicine as determined by the appropriate clinical department chairperson, dean of the college of medicine, and vice president for academic affairs and provost.

(B) Term of appointment.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(1) In the first term of appointment to the regular clinical faculty, appointees will be reviewed annually. During the fourth year, a formal review will be conducted. The faculty member will be informed if the appointment is to be renewed after the fifth year.

(2) Subsequent appointments will be for periods of five years in lieu of tenure. A formal review will be conducted in the fourth year and the faculty member will be informed if the appointment is to be renewed after the fifth year for another five-year term.

(3) All appointments will be based upon criteria established by the clinical departments, approved by the dean of the college of medicine, and vice president for academic affairs and provost.

(4) If the appointment is not renewed, standards of notice must be in accord with rule 3335-47-09 of the Administrative Code.

(C) Transfers

It is generally expected that the needs of the academic unit and the career goals of the prospective faculty member will result in a meshing of need, expectation, responsibility, and expertise to allow a long-term appointment to either the regular faculty or regular clinical faculty. Should a transfer be considered appropriate, the following must be accomplished:

(1) The process of transfer from the regular faculty to the regular clinical faculty or from the regular clinical faculty to the regular faculty is initiated only upon the written request of the faculty member. A recommendation for transfer must indicate clear evidence of a change in the individual’s career goals and expectations, duties, and activities.

(2) An individual appointed to a tenure-eligible position as an instructor or assistant professor requesting transfer to the regular clinical faculty must do so no later than the beginning of the fourth year of service, or after tenure has been granted. Transfer of a tenured faculty member to the regular clinical faculty requires resignation of the tenured position.

An individual from outside the university appointed to a tenure-eligible position as an associate professor requesting transfer to the regular clinical faculty must do so no later than the beginning of the second year of service, or after tenure has been granted.

Balance unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Amb. Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
DISTINGUISHED SERVICE AWARDS

Synopsis: The Academic Affairs Committee recommended the approval for eight individuals to receive Distinguished Service Awards.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended eight individuals for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipients:

Dale T. Friday

Although he retired in 1981, Professor Emeritus Dale T. Friday continues to provide service to The Ohio State University as an advocate for agricultural research and education and in support of the University.

As the first General Manager of the Ohio State Farm Science Review, Professor Friday directed all facets of the review. During his 18 years as manager, the number of exhibitors grew from fewer than 100 to more than 500, and the review became internationally recognized as the premier showcase of the best in agricultural automation, farming practices, farm crop varieties, and livestock breeds.

Professor Friday is a noted agronomist who pioneered research on forestry fertilization by airplane and originated the first aerial application of dry fertilizer. He served as Project Supervisor for the application of the first two carloads of liquid nitrogen fertilizer to be applied in the United States.

As one of the founders and organizers of the North American Farm Show Council, Professor Friday has served as President of that organization and presently serves as Executive Coordinator. As a representative of the Allied Chemical Company, he administered 17 grant-in-aid programs at 15 of the nation's land-grant universities. He has been awarded the Ohio FFA Honorary State Farmer Degree, and has received the Distinguished Alumni Award from The Ohio State University's College of Agriculture.

Because of this active service for the benefit of his alma mater, Professor Friday is exceptionally qualified to receive the Distinguished Service Award.

Noel F. George

Noel F. George, a graduate of The Ohio State University's College of Law, has made significant contributions both to the practice of law and to legal education. As one of the College's most outstanding graduates, he has distinguished himself in the area of transportation law, and his achievements have been notable in the field of interstate commerce.

Mr. George has quietly and effectively served his alma mater. He has been extraordinarily supportive of the College of Law. He is open to and concerned with the needs of the College, and his contributions have enabled the College of Law to undertake the expansion of its library and attract top faculty. Because of his leadership and support of his colleagues at his law firm, Baker and Hostetler, a major capital campaign has become viable for the College.
April 7, 1989 meeting, Board of Trustees

DISTINGUISHED SERVICE AWARDS (contd)

Noel F. George (contd)

A successful lawyer and a committed alumnus, Mr. George has amply shown that he values his Ohio State education. His significant and timely gifts have enabled the College of Law to proceed with its initiatives. Mr. George has been a leader in promoting the interests of The Ohio State University and its distinguished College of Law.

Robert E. Georges

As Associate Dean Emeritus of the College of Business, Robert E. Georges has been active in his support of and service to The Ohio State University. Dean Georges' primary concern was for students, and he promoted the expansion and support of accounting and business education opportunities, especially for minorities. He has been a friend and counselor for generations of business students in over two decades of service.

Dean Georges was responsible for a variety of policies and programs designed to increase minority student opportunity. The New Careers Program in the 1970's sought to prepare minority students for management careers. It actively recruited students and prepared them through special counseling, tutoring, and tuition reimbursement, and in addition guaranteed them jobs on completion of the program.

Dean Georges was instrumental in the development and administration of the Minority Assistance Program in 1975. The goals of the program include minority recruitment, financial assistance, special counseling, intern experience for the participants, and the enhancement of the students' educational life.

Dean Georges' dedication to these programs and his own prodigious efforts have resulted in high success rates. His personal touch has encouraged many students to continue their education. In recognition of his efforts towards these goals, Dean Georges received the 1985 Distinguished Affirmative Action Award. A member of many important University committees, Dean Georges was an active University citizen.

Frederick G. Ruffner

A 1950 graduate of The Ohio State University's College of Business, Frederick G. Ruffner has continued to serve the University in a number of capacities.

Mr. Ruffner demonstrates a clear pride in his alma mater. A loyal and dedicated alumnus, he has supported The Ohio State University, most especially its libraries. Through his publishing company, Gale Research, he has provided the libraries with a large number of reference materials. In addition, his generosity has bolstered the general emergencies priority fund and many other preservation and instructional advancement funds in the libraries.

Most recently, Mr. Ruffner has served as chair of the National Campaign Steering Committee. His unstinting dedication to this effort has carried it through its first three years with enormous success. He has been influential in the initial planning, strategy, and progress of The Ohio State University's five-year campaign.

During his 40 years' affiliation with the University, Mr. Ruffner has been a member of the President's Club, the Alumni Association, and the Friends of the Libraries. Beyond the University, he is president of Friends of the Libraries U.S.A. and is very much involved in the preparation of
April 7, 1989 meeting, Board of Trustees

DISTINGUISHED SERVICE AWARDS (contd)

Frederick G. Ruffner (contd)

several projects for the 1992 Quincentenary Celebration as president of the Phileas Society. He has been recognized for his contributions to Ohio with the 1988 Ohioana Career Medal. In 1970, he received The Ohio State University Centennial Award.

Because of his leadership, generosity, and service to The Ohio State University, Mr. Ruffner is indeed worthy of a Distinguished Service Award.

Thomas B. Smith

Thomas B. Smith, Associate Vice President Emeritus for Physical Facilities, dedicated his 39 years at The Ohio State University to service. During his tenure here, he served as an engineer in the Office of the University Architect, as Assistant and Associate Director of the Physical Plant, and as Associate Vice President of Physical Facilities.

Mr. Smith has been at the forefront of the significant growth in facilities that has taken place at the University since 1956. In his capacity as Assistant and later Associate Director of the Physical Plant, he oversaw the planning and the construction of more than 300 major projects, including new academic facilities, St. John Arena, and the entire North Campus residential and dining complex. In addition, he managed the operation and maintenance of the air conditioning and electrical systems, utility usage forecasting, and other important management functions.

Continuing his pattern of excellent management and service, Mr. Smith supervised the expansion of the Health Science facilities, the completion of West Campus and the regional campuses, and the reconstruction of University Hall. During this period approximately 78 percent of the University’s buildings were constructed.

Of special note is Mr. Smith’s commitment to energy conservation. His innovative ideas and management enabled the University to meet the rising costs of energy sources successfully. From 1973 to 1986, energy management measures saved the University over $100 million, and will continue to provide savings for years to come.

Mr. Smith received the Meritorious Service Award from the Association of Physical Plant Administrators. His management of construction, renovation, and service helped to make The Ohio State University’s physical plant a model for university facilities management.

Mary Anne Southard

After thirty years as a key member of the Office of Communications and Development, Mary Anne Southard retired in 1987. During her sixteen years as Associate Director for the Gift Processing Department, she never forgot the importance of the personal touch in dealing with staff members, faculty, students, and the many friends of The Ohio State University.

During her tenure in the development area, the number of gifts increased dramatically, as did the technology within the office. Although her department handled an increasingly complex load, Ms. Southard continued to insure that each donor’s wishes for the disposition of gifts were followed. Her attention to this detail and her professional attitude set standards for the entire department. Many longtime donors came to know her by name and thus felt comfortable about trusting her with their wishes.
April 7, 1989 meeting, Board of Trustees

DISTINGUISHED SERVICE AWARDS (contd)

Mary Anne Southard (contd)

Because of her knowledge, experience and expertise, Ms. Southard has been able not only to keep up with the growing volume of gifts to the University, but she has also improved the speed and quality of processing. Her dedicated management has inspired a confidence in this department that is still very much in evidence.

Ms. Southard exemplifies the professionalism and achievement that is the goal of the Office of University Communications and Development and, indeed, all of the University. Because of her dedicated service and willing attitude, Ms. Southard is a very worthy candidate for a Distinguished Service Award.

Stuart A. Summit

Stuart A. Summit is numbered among the most distinguished graduates of The Ohio State University College of Law. Mr. Summit is a principal partner and head of litigation of the New York firm of Summit, Rovins and Feldesman. His contributions to The Ohio State University can best be characterized as unselfish service.

This loyalty to Ohio State began while Mr. Summit was an undergraduate student. He was a member of Romophos, Bucket and Dipper, and Sphinx honor societies, the Student Senate, and served as a Chief Justice on the Student Court.

As an alumnus, Mr. Summit has continued to give exceptional leadership to his alma mater. He has served the Alumni Association extensively as an alumni club officer, president of the College of Law Alumni Association, and member of the Alumni Advisory Council. He serves on the Development Fund Board of Directors and is a member of the National Campaign Committee. In recognition of his outstanding contributions, Mr. Summit has received the Alumni Association's Mershon Award.

Always giving to his community, his profession, and his university, Mr. Summit has been a national associate for the Boys Clubs of America, and is active in professional associations.

Leon I. Twarog

Leon I. Twarog, Professor Emeritus of Slavic and East European Languages and Literatures, has had a long and distinguished career at The Ohio State University as the founder and developer of the Slavic Program and as a leader in developing international programs for the University and its students.

Coming to The Ohio State University in 1962 from Boston University, where he taught Russian, Professor Twarog faced the challenge of building a program focusing on Slavic languages and literatures. His great determination and dedication soon began to attract able faculty, but it was his foundation of a comprehensive Slavic studies library that solidified the new program. Supported with a grant from the University, he traveled to the Soviet Union and collected a sizable portion of valuable works, including complete editions of the major writers. The notable Hilander Collection in Medieval Slavic Studies is an outgrowth of Professor Twarog's foresight in gathering materials.
DISTINGUISHED SERVICE AWARDS (contd)

Leon I. Twarog (contd)

In 1963, Professor Twarog was instrumental in the formation of a language study program to the USSR. Now operating as the Ohio State-Purdue Pushkin Institute exchange program, it has become an important link between our two academic worlds. In 1965, he established the Ohio State Center for Slavic and East European Studies, considered the leading program in the area. In his capacity as Associate Dean of Faculties for International Programs, he developed plans and structures for many of the international programs that are now in operation at Ohio State.

Professor Twarog has served as president of the American Association of Teachers of Slavic and East European Languages and as executive secretary of the American Association for the Advancement of Slavic Studies. A world leader in this field, he has worked to spread the study of Slavic languages to high schools, and instituted the annual Slavic Day, which continues to bring 300 to 400 high school students to campus each year.

Largely due to his dedicated service and enthusiastic attitude, The Ohio State University's Department of Slavic and East European Languages and Literatures today enjoys a prominent reputation in its field. Professor Twarog truly exemplifies the standard of excellence to which this University holds.

and

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and the awards are in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Awards be approved for awarding as designated above.

Upon motion of Mrs. Bowser, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

HONORARY DEGREE

Resolution No. 89-85

Synopsis: The Academic Affairs Committee recommended the approval for awarding an honorary degree.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of an honorary degree as listed below:
Professor Rotter is widely recognized as one of the most eminent psychologists of his generation. He has had a distinguished career of original research and outstanding service. His unique contributions to psychology include the formulation of a comprehensive theory of social learning, the assessment of theoretically relevant measures of individual differences and personality.

Professor Julian B. Rotter served as a member of The Ohio State University faculty from 1946-63 and for eleven years was the Director of the Psychological Clinic. He received his A.B. in Chemistry from Brooklyn College, and his M.A. and Ph.D. degrees in Psychology from State University of Iowa and Indiana University, respectively.

Professor Rotter's most impressive contribution to psychology was the combining of two important theoretical traditions, namely cognitive and reinforcement theory. In 1954, Professor Rotter published his book, Social Learning in Clinical Psychology, in which he presented a theory that gave importance both to cognitive as well as the reinforcement value that specific events could hold for an individual. He was one of the first major theorists to emphasize the critical importance of the interaction between social situations and individual differences in personality. This theoretical framework set the stage for the development of a number of expectancy variables that helped predict how people behave. The best known of these is his creative contributions in conceptualizing and measuring internal versus external locus of control of reinforcement expectancy (IE) that became one of the most predominant expectancy variables used in personality and social psychology research over the last 25 years.

In addition to his creativity as a scholar, Professor Rotter has been a leader in the field of psychology. Recognition of his outstanding contributions is reflected in his receiving the American Psychological Association Award for Distinguished Contributions to the Science and Profession of Clinical Psychology. He is one of the outstanding contemporary psychologists of our time. His theory, concepts, insights, and empirical research have changed the field of psychology. Few people have been able to bring the innovative theoretical and applied understandings of human behavior to psychology in the way that Professor Rotter has. Much of this work was accomplished while he was on the faculty of The Ohio State University.

NOW THEREFORE

BE IT RESOLVED, That an honorary Doctor of Science degree be awarded to Julian B. Rotter in accordance with the recommendation at a time convenient to the University and the recipients.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

WAIVER

Resolution No. 89-86

Synopsis: The Academic Affairs Committee recommends the approval of a waiver.

WHEREAS pursuant to the Board's acceptance of the Report of the Committee on Retirement and Insurance on February 5, 1959, and Resolution 77-92, "Principal Administrative Officials" of The Ohio State University are to be relieved of their administrative assignments at age 65; and
WAIVER (contd)

WHEREAS the University's proposed appointment of Joan N. Huber as Coordinating Dean for Arts and Sciences and as Dean of the College of Social and Behavioral Sciences would be restricted by the age 65 exclusion; and

WHEREAS Joan N. Huber has demonstrated outstanding service to the University in her capacity as Dean of the College of Social and Behavioral Sciences and her appointment is within the purview of the affirmative action goals of The Ohio State University; and

WHEREAS the University wishes to appoint Joan N. Huber to these administrative posts beyond her sixty-fifth birthday:

NOW THEREFORE

BE IT RESOLVED, That Resolution 77-92 and the provisions of the February 6, 1959, Report of the Committee on Retirement and Insurance be waived to allow the appointment of Joan N. Huber as Coordinating Dean for Arts and Sciences from January 1, 1989 to December 31, 1991, and Dean of the College of Social and Behavioral Sciences from July 1, 1989 to June 30, 1994.

Mrs. Bowser:

I cannot not vote to waive Resolution 77-92. I think it is a good rule and a fair rule, and a rule that Ohio State has used in a nondiscriminatory manner for forty years. While I admire Dr. Huber's accomplishments, I cannot vote to waive this rule. I vote no.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Immke, Berry, Teaford, Kessler, Wolf, and Ms. Casto, and a negative vote cast by Mrs. Bowser.

--0--

REAPPOINTMENT OF JOAN N. HUBER

Resolution No. 89-87

RESOLVED, That the appointment of Joan N. Huber as Coordinating Dean for Arts and Sciences, effective January 1, 1989, through December 31, 1991; and Dean of the College of Social and Behavioral Sciences, effective July 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code and permitted as a result of this Board's waiver today of the age 65 exclusion for "Principal Administrative Officials" for Dean Huber.

Mrs. Bowser:

Since the rule has been waived, I can happily vote for Dr. Huber.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the February 3, 1989 meeting of the Board, including the following Change in Title, Reappointment of Principal Administrative Official, Appointment of Chairpersons and Director of Departments and Program, Leaves of Absence Without Salary, Leave of Absence Without Salary—Continuation, Professional Improvement Leaves, Professional Improvement Leaves—Change in Dates, Emeritus Titles, Emeritus Title—Cancellation, and Emeritus Title—Change in Title, as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved January 26, 1989, and March 16, 1989, by the Hospitals Board be ratified.

### Change in Title

<table>
<thead>
<tr>
<th>NAME:</th>
<th>RICHARD A. HOLLINGSWORTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Dean of Student Life</td>
</tr>
<tr>
<td>Office:</td>
<td>Student Life</td>
</tr>
<tr>
<td>Effective:</td>
<td>March 1, 1989</td>
</tr>
<tr>
<td>Salary:</td>
<td>$55,080.00</td>
</tr>
<tr>
<td>Present Position</td>
<td>Acting Dean of Student Life</td>
</tr>
</tbody>
</table>

### Reappointment of Principal Administrative Official

RUSSELL J. SPILLMAN, Vice Provost for Student Affairs, effective February 3, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

### Appointment of Chairpersons and Director of Departments and Program

January 15, 1989 through September 30, 1989

Educational Policy and Leadership

Elsie J. Albery*

February 1, 1989 through September 30, 1990

Chemistry

Russell M. Pitzer

October 1, 1989 through June 30, 1994

Cognitive Science Program

Peter W. Culicover

*Acting Chair

### Leaves of Absence Without Salary

GARY K. NUGENT, Professor, Cooperative Extension Service, effective February 1, 1989, through January 31, 1990, for medical reasons.

WILLIAM J. TYZNİK, Professor, Department of Animal Science, effective April 17, 1989, through June 18, 1989, for personal reasons.

ATTILA A. BRUCKNER, Assistant Professor, Department of Industrial Design, effective Spring Quarter 1989, for personal reasons.
PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary (contd)

YONG-TAEK IM, Assistant Professor, Department of Industrial and Systems Engineering, effective Spring Quarter 1989, for personal reasons.

SUSAN P. VAN PELT, Assistant Professor, effective Spring Quarter 1989, for personal reasons.

Leave of Absence Without Salary--Continuation

JO MARLENE JONES, Assistant Professor, Cooperative Extension Service, effective February 1, 1989, through May 30, 1989, to continue to work on her Ph.D. degree at North Carolina State University.

Professional Improvement Leaves

KATHERINE H. BURKMAN, Professor, Department of English, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

KENNETH A. MARANTZ, Professor, Department of Art Education, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

LEE B. BROWN, Associate Professor, Department of Philosophy, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

E. REID GILBERT, Associate Professor, Department of Theatre, effective Autumn Quarter 1989 and Winter Quarter 1990.

CHARLES D. KLOPP, Associate Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

HOWARD J. MARCUM, Associate Professor, Department of Mathematics (Newark Campus), effective Winter Quarter and Spring Quarter 1990.

DAVID N. MILLER, Associate Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SHIGERU MIYAGAWA, Associate Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JAMES P. PHelan, Associate Professor, Department of English, effective Winter Quarter and Spring Quarter 1990.

AMY E. SHUMAN, Associate Professor, Department of English, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

MING-DAW TSAI, Associate Professor, Department of Chemistry, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

HARRY VREDEVELD, Associate Professor, Department of German, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CHARLES G. S. WILLIAMS, Associate Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1989 and Winter Quarter 1990.
PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

S. M. TARIQ RIZVI, Assistant Professor, Department of Mathematics (Lima Campus), effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

Professional Improvement Leaves--Change in Dates

ALEXANDER DYNIN, Associate Professor, Department of Mathematics, change leave from Winter Quarter, Spring Quarter and Autumn Quarter 1989, to Winter Quarter and Spring Quarter 1989.

KAMBIZ VAFAI, Associate Professor, Department of Mechanical Engineering, change leave from Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

Emeritus Titles

CONSTANTINE J. CAVALARIS, College of Dentistry - Diagnostic Services, with the title Professor Emeritus, effective January 1, 1989.

MATEJA MATEJIC, Department of Slavic and East European Languages and Literatures, with the title Professor Emeritus, effective April 1, 1989.

WILLIAM A. NEWTON, Department of Pediatrics, with the title Professor Emeritus, effective January 1, 1989.

RICHARD G. OLSEN, Department of Veterinary Pathobiology, with the title Professor Emeritus, effective January 1, 1989.

MARIE E. BRITTIN, Division of Speech and Hearing Science, with the title Associate Professor Emeritus, effective January 1, 1989.

THOMAS A. WITTICH, Department of Veterinary Preventive Medicine, with the title Clinical Associate Professor Emeritus, effective January 1, 1989.

MCIVER W. WOODY, Sponsored Programs Development, with the title Associate Director Emeritus - Sponsored Programs Development, effective April 1, 1989.

ROSS CALDECOTT, Department of Electrical Engineering, with the title Research Scientist Emeritus, effective January 1, 1989.

Emeritus Title--Cancellation

WILLIAM W. WAYSON, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

Emeritus Title--Change in Title

THOMAS E. POWERS, Department of Veterinary Physiology and Pharmacology, with the title Chairperson and Professor Emeritus, effective January 1, 1989.
April 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff--Appointments

OLIVE C. WILKIN, M.D., Attending Staff, Anesthesiology
JONATHAN K. WILKIN, M.D., Attending Staff, Division of Dermatology
MARYLYNN B. HERCHLINE, M.D., Courtesy Staff, Division of General Pediatrics
MELVIN W. THOMAS, M.D., Courtesy Staff, Division of Emergency Medicine
ERNEST L. DABREO, D.D.S., Attending Staff, Division of General Dentistry
JAY JACOBY, M.D., Attending Staff, Anesthesiology
ALAN R. SACOLICK, M.D., Courtesy Staff, Obstetrics and Gynecology
FRED M. ABRAMOVITZ, M.D., Courtesy Staff, Obstetrics and Gynecology
RICHARD S. JAECKLE, M.D., Attending Staff, Psychiatry

Medical Staff--Reappointments

JAMES W. SIMON, M.D., Courtesy Staff, Division of Urology
JOHN D. MAHAN, JR., M.D., Attending Staff, Pediatrics
LORNA F. DONOVAN, transferred from Limited Staff to Courtesy, Pediatrics
MARGARET S. HARNISH, M.D., Courtesy Staff, Obstetrics and Gynecology

Upon motion of Mr. Teaford, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 89-89

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

John F. Cuber

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 26, 1988, of John F. Cuber, Professor Emeritus in the Department of Sociology.
April 7, 1989 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

John F. Cuber (contd)

John Cuber was born in Chicago, Illinois, on August 31, 1911. He received the A.B. degree from Western Michigan University in 1932 and the Ph.D. from the University of Michigan in 1937. He held faculty appointments at Sioux Falls College, Marietta College, and Kent State University, before coming to The Ohio State University as an Associate Professor of Sociology in 1944. Upon his retirement in 1973 he was named Professor Emeritus. Over the years he also served as Visiting Professor to the University of Kentucky, University of Michigan and the University of California at Berkeley.

Professor Cuber authored five textbooks. Sociology: A Synopsis of Principals (1947) was one of the most widely used in the field of Sociology for many years. Marriage Counseling Practice (1948) was the first book in the field. For many years he served as Editor for the Appleton-Century-Crofts Sociology Series. He was recognized in Who's Who in America and other similar publications and held a range of offices in state and national organizations concerned with advancement of scholarship, including the national vice presidency of Alpha Kappa Delta. He engaged in important research, trained a generation of specialists in the family field, and was one of the best lecturers the Department of Sociology has ever had.

The Department of Sociology pays tribute to the memory of John Cuber, his keen analytical abilities, his special gift as a speaker, and his concern for scholarship.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Ralph H. Davidson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 13, 1989, of Ralph H. Davidson, Professor Emeritus in the Department of Entomology.

Professor Davidson was born January 19, 1908, in Vandalia, Ohio. He graduated from Butler Township High School in Vandalia, Ohio, in 1926. He then enrolled at The Ohio State University where he received the B.S. degree in June 1930, majoring in Agricultural Entomology; the M.S. degree in 1931 and the Ph.D. degree in June 1935, both in Entomology.

Dr. Davidson spent his entire professional career teaching and conducting research at The Ohio State University. He was a graduate assistant from 1930-1935; Instructor from 1935-36; Assistant Professor from 1936-43; Research Associate, Research Foundation from 1943-46; Associate Professor from 1946-58; and Professor from 1958 until his retirement in 1971. Upon his retirement he was named Professor Emeritus.

Besides teaching, Ralph had a nearly continuous record of research and field experience beginning with the summer of 1930. He worked with the USDA, the Agricultural Extension Service, OSRD and as supervisor of industrial and government research grants through The Ohio State University Research Foundation. His interests in leafhopper taxonomy, field entomology, insect biology and control and insecticide development are represented in more than 75 publications, including the outstanding textbook, Insect Pests of Farm, Garden and Orchard, 6th Edition.

846
RESOLUTIONS IN MEMORIAM (contd)

Ralph H. Davidson (contd)

Dr. Davidson was active in Gamma Alpha and Gamma Sigma Delta fraternities and Sigma Xi. He joined the Entomological Society of America and the Ohio Academy of Science in 1931 and served both in a number of capacities. He was also a member of the Entomological Society of Washington, a Fellow of the AAAS and is listed in American Men of Science and Who's Who in the Midwest. He also served a term as President of The Ohio State University Faculty Club.

On behalf of the University community, the Board of Trustees expresses to the family of Dr. Davidson its deepest sympathy in its loss. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as sincere appreciation of the Board's realization of the loss that the family, the University and his many friends and associates have sustained.

Wilbur H. Ford

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 19, 1988, of Wilbur H. Ford, County Agent Emeritus in the Cooperative Extension Service.

Mr. Ford was born October 20, 1895, in Adario, Ohio (Richland County). He served as a Second Lieutenant in France with the Pioneer-Infantry Division in World War I. He received his B.S. in Agriculture from The Ohio State University in 1920, his M.S. in Animal Nutrition from the University of California in 1931, and other graduate work at the University of Colorado in 1941.

Upon graduation from The Ohio State University, Wilbur Ford became agriculture manager of the Lucas County Children's Home in Maumee, Ohio. In October 1922 he began his Extension experience when he joined the faculty at The Ohio State University as a County Extension Agent, Agriculture in Highland County. Mr. Ford continued in this position until November 1947. In March 1948 he became the County Extension Agent, Agriculture in Perry County and remained in this position until his retirement in December 1951. Upon his retirement he was named County Agent Emeritus.

Mr. Ford was instrumental in organizing the first Soil Conservation District in the State of Ohio. He not only was active in agricultural endeavors but also was a promoter of the 4-H program by originating tours to various Ohio industries for 4-H club members and their families. He developed 4-H camping programs and built two camp sites in Highland County and originated one of the first 4-H bands in the state. He and his wife supervised the Ohio State Fair Youth Building for seven years.

Mr. Ford was a member of the National Association of County Extension Agents and the Ohio Retired Extension Agents Association. Wilbur Ford was the recipient of several peer awards sponsored by the Ohio County Agents Association and the National County Agents Association. Mr. Ford's career took him on travels throughout the United States, Great Britain, Scotland, and Ireland. He was highly respected by his associates throughout the world.

On behalf of the University community, the Board of Trustees expresses to the family of Mr. Ford its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.
The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 17, 1989, of Donald W. Riley, Professor Emeritus in the Department of Communication.

Dr. Riley was born on May 17, 1901, in Hamilton, Ohio. He graduated from Miami University with a B.A., and received an M.A. and Ph.D. from The Ohio State University. He began his university teaching career in 1930 as an Instructor in the Department of English at The Ohio State University. He was one of the faculty members who founded the Department of Speech when it was established in 1936.

Dr. Riley taught at The Ohio State University throughout his career and received the title Professor Emeritus upon his retirement in 1971. In addition, he was a Visiting Professor at Mexico City College for several terms. He was interested in the development of radio drama and published several articles on this topic. In addition, he was interested in correct pronunciation. For most of his career he taught courses in Voice and Diction and Radio Production. For a number of years he was the Director of the Ohio High School Speech League.

He was very active in the English Speaking Union and twice was elected President of the Columbus Branch.

Dr. Riley will be remembered by his students and colleagues as a person who was a thorough and dedicated teacher. He made many important contributions to his students personal and professional development.
RESOLUTIONS IN MEMORIAM (contd)

Donald W. Riley (contd)

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

James I. Watters

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 20, 1989, of James I. Watters, Professor Emeritus in the Department of Chemistry.

Dr. Watters was born on April 4, 1908, in Broadus, Montana. He earned his B.Sc. at the University of Minnesota in 1931. In 1943, he received the Ph.D. from the University of Minnesota, having performed his research under the direction of Professor I.M. Kolthoff. During the World War II years 1943-45 he served his country as Chief of Analytical Chemistry in the Manhattan Project at the University of Chicago. Afterwards, he joined the faculty of the chemistry department at the University of Kentucky as an associate professor. He spent the summer of 1947 as a visiting professor at Northwestern University. In 1948, he joined the analytical division of the Chemistry Department at The Ohio State University as a professor. During his career he supervised the research of 14 Ph.D. and 15 M.Sc. candidates. Upon his retirement in 1978 he was named Professor Emeritus.

His research centered on the solution chemistry of metal ion complexes. Chief interests lay in the newly emerging areas of polarography and spectrophotometry. He became interested in the area of mixed ligand complex compositions and stabilities. He solved the difficult numerical problems that are encountered in analyzing these reaction systems before high speed computers were readily available. His work in this area stands as a landmark. Another subject he tackled was the interactions of polyphosphates with metal ions. Here again he achieved a high degree of success in unraveling the complicated chemical behavior of difficult systems.

Dr. Watters was a summer consultant for the USAID at the Punjab University, India, 1965; Annamalai University, India, 1966; and at the UJJAIN University, India, 1967. He as an editor of Analytical Chemistry of the Atomic Energy Project in 1951, and a contributor to The Treatise on Analytical Chemistry.

He was a member of the American Chemical Society, AAAS, Sigma XI, Zeta Psi, and Phi Lambda Upsilon. He is recognized in Who's Who in the Midwest, Who's Who in American, Who's Who in the World, and American Men and Women of Science.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Amb. Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---
April 7, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT

Amb. Wolf:

Mr. Chairman, the Student Affairs Committee met this morning and heard a report of and reviewed the Amendments to the Code of Student Conduct. These rules really updates based upon experience factors to the various sections of the Code. I move for the adoption of the suggested changes or amendments to the Code.

AMENDMENTS TO THE CODE OF STUDENT CONDUCT

Resolution No. 89-90

Synopsis: The Student Affairs Committee recommends the approval of the following amendments to the Code of Student Conduct.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Code of Student Conduct as approved by the University Senate; and

WHEREAS the Proposed changes in the Code of Student Conduct were approved by the University Senate on January 28, 1989:

AMENDMENTS

3335-25-01 Prohibited conduct.

(A), (B), (C) unchanged.

(D) Dangerous weapons or devices.

Use, storage, or possession of dangerous weapons or devices including, but not limited to, firearms and fireworks unless authorized by an appropriate university official or permitted by a university policy.

Balance unchanged.

3335-25-03 Policies.

Established policies and rights exist to ensure an environment conducive to equal treatment and quality living for all members of the university community. Students violating university policy may be subject to disciplinary action.

(A) through (G) unchanged.

(H) Drug and alcohol policy.

The illegal use, possession, sale, manufacture, or distribution of drugs is prohibited by the Ohio state university. In addition, the misuse of substances which present physical or psychological hazards to individuals is prohibited.

Those choosing to provide, sell, or otherwise permit consumption of alcoholic beverages at their event shall comply with applicable state and local laws and university policies regulating alcoholic beverages.
AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)

3335-27-03 Notice of proceedings.

If a hearing is to be held, written notification will be delivered to the last known address of the student, either by certified mail, first class mail, or by hand-delivery, no fewer than seven calendar days prior to the hearing. In residence hall cases, notification of hearings will be placed in student mailboxes or hand delivered no fewer than seven calendar days prior to the hearing. The notification will include the charge, and the date, time, and location of the hearing, the designated hearing officer or panel, a statement of the accused's rights, and information on the hearing procedures. The accused student may waive the notice period, request a postponement for reasonable cause, or request a hearing separate from other accused persons. Request for a postponement or separate hearing must be received by the person sending the notification at least one day before the scheduled hearing.

3335-27-04 Hearing procedures.

Students have a right to fair hearings. Although the procedural requirements are not as formal as those existing in the civil courts of law, to ensure fairness, the following procedures apply and will be included within hearing notices:

(A) Hearings are restricted to those directly involved or those requested by the accused or hearing officer or panel to attend. The hearing officer may take reasonable measures to assure an orderly hearing, including removal of persons who impede or disrupt proceedings.

(B) The accused student may have a person present to advise him or her. The adviser may only counsel the student and may not actively participate in the hearing, unless clarification is needed as determined by the hearing officer or panel.

(C) The accused may submit a written statement, may invite witnesses to attend on the accused's behalf, may ask questions of witnesses called by others, and will be notified of witnesses to be called. The university may present witnesses as well as question those presented by the accused.

(D) Written statements signed by a witness(es), and verified as being by that witness(es) by the designated hearing officer or coordinator of the panel, may be used if, for good reason, the witness(es) cannot attend the hearing.

(E) University hearings, unlike proceedings of courts of law, do not require conclusive proof; instead, the greater weight of the evidence is sufficient for the hearing officer or panel to decide if a violation of the code has occurred and to impose a sanction.

3335-27-06 Record and nature of proceedings.

A record consisting of written notes, tape recording, or other method selected by the hearing panel or officer, will be made of all hearings. This record will be available to the accused during the appeal period and can be copied at his or her expense. A written notice of the decision and information regarding appeal procedures will be sent to the accused student. In general, materials relating to a disciplinary action are confidential and may be made available by the designated hearing officer or coordinator of the panel only to those who have a valid need to know, e.g., disciplinary officers, the vice president for academic affairs and provost, and other university officials who have a demonstrated need to know. The policy governing confidentiality and release of records is printed in the quarterly master schedule of classes and available from the office of student life.
AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)

3335-27-07 Appeal.

A student found to have violated this code has the right to appeal the original decision. Appeals must be filed within fourteen calendar days from the date of the sanction decision letter. The following guidelines apply:

(A) through (C) unchanged.

(D) A student is allowed active representation by an advisor when making an appeal of proceedings which resulted in suspension or dismissal.

(E) Appeals proceed through the following channels:

(1) In residence halls, decisions of living unit commissions are appealed to the hall director; decisions of the hall directors are appealed to the area coordinator; decisions of area coordinators are appealed to the associate director of residence and dining halls for residence life.

(2) Decisions of hearing officers or panels appointed by the dean of student life are appealed to the dean of student life; decisions of cases heard by the dean of student life are appealed to the vice provost for student affairs.

(3) Decisions of the university court in disciplinary hearings are appealed to the dean of student life.

(4) Decisions of the committee on academic misconduct are appealed to the vice president for academic affairs and provost.

(F) A new hearing by a different hearing officer or panel shall result when the person designated to decide appeals determines that there are substantial new facts that were unavailable at the time or the hearing. The determination of this panel or officer shall in no way be influenced or bound by the result of the original hearing.

3335-29-04 Suspension and dismissal.

(A) Suspension.

Suspension is a sanction by which the student is involuntarily separated from the university for a period not to exceed three full academic quarters following the effective date specified in the sanction letter. Eligibility for reinstatement is restored upon expiration of suspension.

(B) Dismissal.

Dismissal is a sanction by which the student is involuntarily separated from the university for four full quarters or more following the effective date specified in the sanction letter. The dismissed student must apply for reinstatement. Reinstatement of the student at the university after dismissal is not guaranteed.

(C) Unchanged.
AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)

3335-29-07 Other sanctions.

Other sanctions that the hearing officer or panel considers appropriate to the student and the conduct violation in question may be imposed. For example, research assignments, community service projects, special workshop participation and/or referral to medical resources or counseling personnel may be assigned as recommended sanctions or as conditions to another sanction. In cases of academic misconduct, a lowered or failing grade may be recommended for the academic coursework. In residence halls, other sanctions may include contract termination or reassignment to another room. Non-residence hall hearing officers or panels may recommend sanctions of this type to the office of residence life.

Failure to meet requirements of any sanction in the time allotted or a repetition of misconduct may result in an extension of the period of sanction or imposition of a more severe sanction.

3335-31-02 Committee on academic misconduct.

(A) The committee shall investigate or establish procedures for investigation of all reported cases of student academic misconduct and decide upon suitable disciplinary action. However, the committee does not hear cases involving academic misconduct in professional colleges having a published honor code. These colleges shall follow their own codes and procedures which can be obtained in their respective central offices. The committee may, in its discretion, refer cases to the university judicial panel if it determines that the academic misconduct allegation is incidental to some other misconduct.

(B) "Academic misconduct" is defined as any activity which tends to compromise the academic integrity of the institution, or subvert the educational process. Examples of academic misconduct include, but are not limited to:

(1) Violation of course rules as contained in the course syllabus or other information provided the student; violation of program regulations as established by departmental committees;

(2) Providing or receiving information during quizzes and examinations such as course examinations and general examinations; or providing or using unauthorized assistance in the laboratory, at the computer terminal, or on field work;

(3) Submitting plagiarized work for an academic requirement. Plagiarism is the representation of another's work or ideas as one's own; it includes the unacknowledged word for word use and/or paraphrasing of another person's work, and/or the inappropriate, unacknowledged use of another person's ideas;

(4) through (7) unchanged.

(C) All cases of suspected misconduct shall be reported to the committee. The committee also shall investigate cases of lax or irregular examination methods and report findings to the vice president for academic affairs and provost. Students have the obligation to report suspected misconduct or irregular or lax examination methods. The committee may impose any code sanction. The committee consists of:

(1) Fifteen regular faculty members elected by the faculty council for three-year terms; beginning with summer quarter, the election to be held annually so that
AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)

five members will retire each year. No university faculty member shall serve more than two consecutive terms;

(2) Five graduate student members appointed in the summer quarter by the president of the council of graduate students, with the approval of the council of graduate students, for a one-year term beginning with the autumn quarter;

(3) Five undergraduate student members appointed in the spring quarter by the president of the undergraduate student government, with the approval of the undergraduate student assembly, for a one-year term beginning with the summer quarter;

(4) The dean of student life or designee, without vote; and

(5) A coordinator, appointed by the vice president for academic affairs and provost, without vote, and charged with assisting the committee in administrative matters. The coordinator does not participate in the decisions of the committee.

(D) The committee on academic misconduct establishes panels from its membership with student/faculty ratios at least as great as that of the full committee to conduct hearings and make decisions with the same authority as the full committee on academic misconduct.

(E) The committee on academic misconduct establishes rules and procedures to conduct hearings, including the definition of a quorum.

(Details of rule 3335-5-487 of the Administrative Code, which defines the committee on academic misconduct, and committee procedures are available from the office of the vice president for academic affairs and provost.)

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Code of Student Conduct be adopted as recommended by the University Senate.

Upon motion of Amb. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Amb. Wolf:

Mr. Chairman, usually at this moment we have asked the presidents of our student organizations to come forward and give us some observations if they have any that have developed in the last 30 days. Steve Dibert is President of the Interprofessional Council.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Steve Sloan:

You can tell I am not Steve Dibert. I am Steve Sloan. Steve is doing surgery this month and wasn't able to attend. I can remember the last time I spoke to you, I think I was more nervous than I am now. I am not going to say that I think things are different now that we have two students of the Board of Trustees. One of the whom is a good friend of mine, Sophia Paige. Sophia and I met last year in the first day of Medical School. We were anatomy partners and we spent many long frustrating and sometimes rewarding hours in the labs.

What I want to do today is to review some of the things that the IPC has done over the last year. Some of the things you know about and some of them I think might be new. First, what we are most happy about is that we were able to work successfully with the Undergraduate and the Graduate Student Governments to bring five student Trustee candidates' names to the Governor. We are very happy about the results, I am particularly happy. As an organization, we are happy to see that a very large percentage of the applicants were actually professional students. We would like to think that part of this was due to the fact that we were able to give an application to every single graduate student who was eligible to apply. We are very happy about that. Another role of IPC is to elect students to University-wide councils so that we can get outside of our professional schools. This year I think our representatives have been more active than they have been in the past in representing our interest, which is what we are particularly interested in. As you may know, one of our concerns has been the ticket priorities. As an undergraduate when you are a freshman you have a certain ranking. When you become a senior your ranking moves up higher. That is not the case for professional students. I don't believe that is the case for graduate students. We were wondering why. Deborah Katz, a law student, led a council that became active in this issue and she learned a lot more about the ticket priorities and situations than she really wanted to. I think we have a better understanding for exactly why professional students don't get priorities, and also why the ticket office really isn't particularly interested in giving us priority. It would mean changing the way things are done now. It would be fairly complicated, but we want it. We now understand the issues and what is involved. Now we want to see some action taken, even though it is going to cause them some hassles.

Another area of active interest, I think for most people, is traffic and parking. I think it is a never ending issue. A representative Naveed Ismail, who is a third year medical student, also learned a lot more about the traffic and parking situation. He recently told us each parking spot cost over $10,000. We were a little surprised about that. Besides learning a lot, he was able to get some action done. There was one lot that was a "B" lot at one point, which is staff, and that lot was supposed to be a student lot. He was able to get that changed to a student lot. We are pretty happy about that.

The next issue is the proposed tuition increase. After we learned about that, Steve sat at the computer and whipped out a letter to all the professional students which we delivered to them. Basically, we outlined the situation and what the results would be. We asked them to write to the various elected officials to see if we could avoid those complications. I am happy to say that last night I was at a medical student council meeting, and I learned that signatures have been collected. It looks like we are going to be having some action on that, directly from professional students.

855
Another thing that happened recently, the quilt that was brought here for the AIDS project. We were fortunate enough to have Steve Dibert represent us there and to read 30 names of the AIDS victims.

There are two other issues that we are currently interested in. The first one is the bookstore pricing. I think it is sort of a tradition that textbooks cost a lot of money and students complain about the money. In particular, the professional schools have a situation, at least in the Medical School, where there is only one source. The Medical School has a monopoly. If I was in their situation, I would do what they do. They charge a lot of money. What we want is to learn about the problems. We had our representative to the Bookstore Council—I don’t know exactly what that is—look into it. He has talked to them a little bit. Steve has talked to them. Unfortunately, we have had different stories given. Sometimes they would tell us, “Well, we just take the recommended price that the distributors tell us.” Other times they say, “No, we just mark it up one third.” We are not very happy with that situation. We don’t feel we are getting a complete accounting of what is going on. Some of the things we are interested in doing are comparing the prices at other student bookstores across the country, and also to really find out what the policy is. At one point we believe the situation was that bookstores needed a certain profit. One of the easy ways to do that was to go to their monopoly source, which was the med school bookstore and just boost the prices. I recently paid $120.00 for a textbook. The paper wasn’t even good quality. It is upsetting. We are going to try to learn about that issue, and see if there really is a problem.

The last issue is sort of our newest issue—is student insurance. Recently, as a second-year medical student we had lectures on health care financing and insurance. Just in passing, one of our professors called our student insurance, non-insurance. Not knowing anything about insurance, I didn’t know why he said that. Of course became concerned, and I want to know why he thinks it is non-insurance, and to find out if we really aren’t covering our students adequately. I know our student insurance prices are very inexpensive, and if we raise those prices we may lose students applying for it. Do we really have adequate coverage for the things that are necessary? Right now I know a little bit about it. There is a $20,000 stop off. If a student were to have a serious accident or illness, which would easily cost over $25,000, they would not be covered. Twenty five thousand dollars, I think might be inadequate, although I am not sure. That is one of the things we will be looking into on the insurance.

Finally, the last topic is just the IPC itself. I have only been involved for about a year, and Steve has been involved for about 2 years. He continuously tells me that we were a very weak, unorganized organization. I can only believe him because I do not know. Now I know we have an office, we have a telephone, we have a budget, and we are very happy about that. At our last meeting, we had well over 80% attendance. Our elections are coming up, and I am hoping that Steve will stay on, and we will have some continued leadership. Thank you, very much. Also, about the insurance issue—if any of you have advice or could tell me where to get more information, please let me know.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Scott:

You can stop in Archer House and make an appointment to see me.

Amb. Wolf:

The Council of Graduate Students.

Mr. Roger Musgrave:

The first thing CGS would like to accomplish with its report is to congratulate Ms. Davis, and Ms. Paige on their selections to serve with you folks, and assure them, in your presence, of our confidence in their ability and motivation to serve all of the students on campus.

The Council's primary spring activity is the Graduate Research Forum. It is scheduled a week from tomorrow, April 15 from 8:30 a.m. until 2:00 p.m. in the lower level of University Hall. It is intended primarily to provide a means for graduate students to have the experience of presenting their work in a setting that is much like the professional conferences they will attend down the road in their careers. We hope this is a kinder and gentler setting than they will face down the road. We are able to offer the paper and presenters chosen as outstanding in each of the ten graduate school areas a $500.00 cash prize. We are sure that incentive helps us get a little bit better participation, but it is primarily intended to provide the opportunity to share research and gain that experience for our graduate students.

We had primarily positive feedback. We know that some of the visiting faculty members we brought in as guest judges told us they intend to do everything they can to see something like this happen on their own campuses. We are relatively proud of it, and we appreciate the support the Graduate School and the University has given us in being able to do this every year.

Our elections will be held April 30. Just real briefly, in the past we have had non-contested elections for our officers' positions. We are very happy that this year both the President and Vice President offices have more than one candidate. We'd like to think that is an indication that folks are becoming more involved, which is not to say that we think we have got anywhere the problem of apathy that a lot of campuses have. But we think it can be nothing but good for the group. We would like to thank Dean Koenigsknecht for getting us a quick answer on whether or not the graduate school would fund the Vice President position next year with a graduate associateship. The answer was yes, and we appreciate it because we know his headaches with projecting his own budgets. It makes it a lot easier for us to know that we are not looking for a volunteer to put in the hours.

The teaching associate forum series is continuing. We just had one last night. It is a joint effort by the Center for Teaching Excellence, the Council of Graduate Students, the Graduate School, and the Undergraduate Student Government meant as a forum for folks to discuss problems that TA's face. They are kind of unique problems that they never have run into before, and they need to learn how to handle. Attendance continues to increase, we continue to get good press on it, and we think it helps both the graduate students that are trying to become better teachers, and the undergraduates who have to put up with the TA's who are trying to become better teachers.
Mr. Musgrave: (contd)

The National Association of Graduate and Professional Students, which has the interesting acronym of NAGS, which may become an even more interesting acronym if it continues to grow and become an advocacy group for graduate students. At any rate, we had the national conference in Miami, from March 2-5. Representing Ohio State were: our four officers -- myself, David Doerfert, Benetta Lucius, and Luke Evans; last year's NAGS regional political coordinator, Julie Franklin, who is a Ph.D student in physics; and Jeffery Leptak, a Ph.D student in Education, who was our regional conference coordinator. It wasn't just a conference, it was an adventure because we were booked on the conference airline, which happened to be Eastern, and we happened to be booked out of Miami the day the strike started. We learned a lot in Miami. For those of you who don't know, NAGS was founded in Columbus right here on this Campus in 1986 by five TA's from different schools including Ohio State who were here for a TA training conference. The organization was created at a table in the Varsity Club on Lane Avenue. What is fascinating about that is in those three years the group has grown from those five people to a group representing 89 universities, now representing 280,000 graduate students. That is incredible. I can't think of any professional organization in one of the disciplines that has ever had a growth like that. We are real confident that it is going to be a very real, very viable organization. We now have our bylaws and constitution in place which has allowed us to apply with the IRS for the non-profit status that we will need to generate decent funding to do some of the programming we want to do.

What we learned at this year's conference is that in many regards graduate students at Ohio State are relatively well off. We heard a lot of comment from people elsewhere about things we frankly take for granted. People don't have graduate student housing, evening classes that they can work around their full-time jobs, and access to a student comprehensive health center. While we have complaints about our health center, we have one. I guess what our delegation wants to say is thank you to this University for providing a lot of things, and for being sensitive in a lot of cases. We also discussed items that we find ourselves lacking, as are many other student groups. Adequate day care facilities and health insurance provisions are becoming emergent topics of discussions. Funding issues are also important everywhere. We talked with folks from Michigan where TA's have been unionized for years. We talked with folks from Michigan State where they just organized last year. In essence, the conference was primarily an information exchange. The last thing about the conference, there was a resolution past in reference to Senate Bill 3 and House resolution 660, which for those of you who don't know, would tie eligibility for educational assistance to, and how is this for a phase, "mandatory voluntary service." I will read the resolution to you. We will have more to say about it later.

WHEREAS the National Association of Graduate Professional Students firmly support the right of all people to an education;

WHEREAS NAGS supports the expansion of voluntary community service programs;

WHEREAS NAGS holds that education is a right and not a privilege;

WHEREAS all of these ideas are violated by SB 3 and HR 660 because such bills require civilian or military service in return for providing educational benefits:
April 7, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

BE IT RESOLVED, That the National Association of Graduate Professional Students calls for the rejection of Senate Bill 3 and HR 660 and any other bills that would require civilian or military service in return for providing educational benefits.

To close let me say that one of the charges of the Council of Graduate Students is also to make efforts to improve the social environment for graduate students at Ohio State. We tend often to almost ignore that and focus on the professional and academic issues. We are going to make an attempt to have the first, perhaps annual, graduate spring picnic. The only details we have are May 21 on the south lawn and patio of Drake Union. You are certainly more than welcome and I will let you know if there will be free food. Are there any questions?

Amb. Wolf:

Thank you, Roger. Athena Yiamouyiannis is President of the Undergraduate Student Government.

Ms. Athena Yiamouyiannis:

Mr. President, Mr. Chairman, Members of the Board, good afternoon. First of all, USG would like to welcome our two new student Trustees. After years of hard work it has finally become a reality, and Laurel A. Davis and Sophia L. Paige, USG would like to present these flowers to each of you in recognition of your appointment. We look forward to working with you throughout your term as members of the Board.

I would like to begin my report of the Undergraduate Student Government activities by discussing the USG rally on the Oval which was at noon yesterday. The rally was to protest the proposed tuition increase. A mock funeral was held on the Oval.

The effigy was placed in a coffin and the funeral procession march went from the middle of the Oval to the William Oxley statue. At that time, the coffin was set down and Vice President Scott Mounts gave the Eulogy. The event symbolized the implication that higher tuition is the death of higher education. We had an excellent turnout and we had great media coverage. Channel 4, Channel 6, and Channel 10 were there, and we also got on the front page of the local section of the Columbus Dispatch. They had a picture of students carrying the coffin and also other students holding signs up protesting the tuition increase.

In addition, we had a table set up on the Oval throughout the day where students could come up and sign letters to their senators protesting the tuition increase. In addition, we had a petition for Governor Celeste where students could also voice their opinion. And also, for you, as members of the Board of Trustees, these are the letters that the students wrote yesterday afternoon protesting the tuition increase.

I would hope that you will take this into consideration when you are making a decision on a tuition increase for next year. As students in student government and as students of the University, we have been trying our hardest to get the State Senators -- and before the State Representatives -- to listen to us and to help us in funding higher education.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Yiannouyiannis: (contd)

In conjunction with our lobbying efforts, USG is working with the Ohio Students Association. This is a group made up of student leaders from around the State. We are hosting a luncheon downtown on this coming Monday, and so far we have 25 State Senators or their aids that will be attending in addition to the University presidents and the OSA student leaders. What we are doing is appealing to the Senate for additional funds and stressing, again, the importance of more funding for higher education.

In other activities, USG has been involved with the Names Project Quilt. In conjunction with other student organizations, we made up buttons that said "Remember the Names Project Quilt." We distributed those to increase awareness and so that we could get more students and community members out to see the AIDS quilt. We also had volunteers that helped out at the project, as well.

In other USG activities, Matt Hecmanzuk, who is the USG Director of Elections, has been working with the student election committee to organize the USG elections. They have been working also on hosting the four debates, there is still one to come. Our elections will be held on April 11, 12, and 13. The new administration will be taking over during the third week of May. That concludes my report.

Amb. Wolf:

Thank you very much, Athena. Mr. Chairman, that concludes the presentation of the Student Affairs Committee.

(Several hundred signed letters were presented, the format of which is reproduced in Appendix XXXII, page 1023.)

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mr. Teaford:

As I think you know, the Director of Agriculture sits as a member on the Committee on Agriculture and his Assistant Director, Tony Logan, was with us today. He began the meeting by announcing that the Governor has directed a $100,000 grant toward the Farm Enhancement Program. Which I might say is only one-fifth of what he owes us, but I think we will get that. This is coming out of a fund that is controlled by the department and Farmers Home Administration and the moneys will be used for low income farmers which Shirley assures me will not be a difficult task to find.

The bulk of our meeting was taken up with the report by David Hansen with regard to the international activities in the College of Agriculture. Those programs began at the time of land lease-back in the early '50's. And at that time, Ohio State concentrated almost all of their international efforts in Brazil and in India. Those programs nearly died out in the '60's and '70's. But in the '80's have been resumed, I think in large part for the same reason that they were started, because of requests by the United States Government to us.
AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

Needless to say there are -- other than the obvious humanitarian reasons for being involved there, selfish reasons for the University to be involved in that kind of activity as well, because of the increased emphasis on international trade and general international enrollment. It is also interesting to -- we were also told that the Department of Agricultural Economics has in the past twenty-five years been involved in international finance work in some thirty-eight countries around the world.

Currently, there is some $3 million in sponsored grants. They are principally concentrated in Uganda, Dominican Republic, and Burma (which I guess is temporarily suspended because of their current difficulties.) We also had a discussion on what motivates us to go for grants. And what does not do it is just simply chasing contract money. We will always seek grants in the areas where we are particularly strong. Because obviously that enhances the whole educational mission. Also, we like to stay with the same countries, over and over again. I think once you have learned the cultural biases and differences it is useful to continue that expertise.

We also briefly heard about an agricultural intern program which involves a great number of students particularly in European countries coming here and also our students going abroad. We also received a report that showed that there are some 61 countries represented among the students in the College of Agriculture. Less we think that is a small insular program.

Finally, a kind of interesting note, one of the reasons why these international programs have very greatly benefitted Ohio and our nation, has to do with the fact that most all of the crops that were raised in the United States are not indigenous to this country. From time to time it is necessary in order to get new species or new kinds of crops, we must get germ plasm from species abroad. It has been possible to do this because of the international nature of these programs. So it is a very important part of sustaining our own agriculture.

Mrs. Bowser:

I am so proud of my city friend. He is doing very well. You have learned a lot.

Mr. Teaford:

I have indeed learned a lot. Mr. Chairman, that completes my report.

(See Appendix XXXIII for complete text of The Ohio State University College of Agriculture International Programs Update, page 1025.)
Mr. Kessler:

The Fiscal Affairs Committee began by hearing a report on the capital project procedures from the program of requirements through design and construction. I'm certain that all of us will agree that while these state procedures are comprehensive, they require a significant amount of staff effort as well as patience on the part of our people at this University.

We also had a discussion of the various issues which will impact the budget guidelines and recommendations for Fiscal Year 1989-90 which are scheduled to be presented to this Board at our May meeting.

In addition to this report, the Committee is recommending the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 89-91

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summaries for January and February 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the months of January and February 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

SUMMARY FOR JANUARY 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>116</td>
<td>$10,524,497.61</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>87</td>
<td>$1,036,244.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>203</strong></td>
<td><strong>$11,560,741.61</strong></td>
</tr>
<tr>
<td>The Ohio State University Development Fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment of Named Funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Rita C. and Oscar L. Thomas, Sr. Fund (College of Business)</td>
<td></td>
<td>$100,000.00</td>
</tr>
<tr>
<td>The Lloyd G. and Virginia Sharp Memorial Scholarship Fund for Carroll County (Scholarships)</td>
<td></td>
<td>$22,984.19</td>
</tr>
<tr>
<td>The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund (Provide or supplement educational costs toward a degree for former varsity football players and coaches and their spouses and first and second generation children)</td>
<td></td>
<td>$17,850.00</td>
</tr>
<tr>
<td>The Sue Ann Dowell Schott Agricultural Fund (Fund graduate fellowships, sponsor seminars or provide support for programs)</td>
<td></td>
<td>$17,687.50</td>
</tr>
<tr>
<td>The Ohio State University Marion Campus Founders Scholarship Endowment Fund (Scholarships)</td>
<td></td>
<td>$15,646.68</td>
</tr>
<tr>
<td>The Virginia A. Arnaud Scholarship Fund in Elementary Education (Scholarships)</td>
<td></td>
<td>$15,000.00</td>
</tr>
<tr>
<td>The Dr. Henry J. Detmers Fund in Veterinary Medicine (Discretion of the Dean)</td>
<td></td>
<td>$15,000.00</td>
</tr>
</tbody>
</table>
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

SUMMARY FOR JANUARY 1989 (contd)

Background (contd)

Change in Name and Description of Named Fund

From: Robert E. Oscar Professorship in International Business Fund
To: The Robert E. Oscar Scholarship Fund in International Business

Change in Description of Named Fund

The Sphinx Endowment Fund

SUMMARY FOR FEBRUARY 1989

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Foundation</td>
<td>98</td>
<td>$6,335,011.00</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>57</td>
<td>$152,529.00</td>
</tr>
<tr>
<td>Total</td>
<td>155</td>
<td>$6,487,540.00</td>
</tr>
<tr>
<td>The Ohio State University Development Fund</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Establishment of Named Funds

The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund
(Support research and facilities) $363,318.85

Texnikoi-Arthur C. Avril Endowment Fund
(Provide further growth for fund and scholarships for members of the Texnikoi Chapter) $129,000.00

Robert M. Zollinger Lectureship Fund
(Support a distinguished lectureship within the Department of Surgery) $64,400.00

Donald H. Russ Scholarship Fund
(Scholarships for students from Carroll County, Ohio) $50,000.00

Wells Nursing Scholarship Fund
(Scholarships and recruitment) $30,000.00
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

SUMMARY FOR FEBRUARY 1989 (contd)

*Background* (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund
(Support a lectureship for a distinguished researcher from the industrial community who will present at least one chemistry department seminar) $23,000.00

The Joseph P. Kinneary Scholarship Fund
(Financial assistance to students enrolled in the College of Law) $17,143.00

J. Walter Severinghaus Scholarship Fund
(Scholarships to students pursuing the Master of Architecture degree) $16,700.00

Change in Name and Description of Named Fund

From: The Martha Miller Lotman Memorial Scholarship Fund
To: The Martha Miller Lotman Scholarship Fund

Change in Description of Named Fund

Metropolitan Washington, D.C., Alumni Scholarship Fund

The Ohio State University Foundation

Approval of Description and Establishment of Fund

Schoenbaum Scholars Program Fund $1,000,100.00
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - January 1989

Federal Research Contracts/Grants


$359,207.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cooperative Human Tissue Network, Comprehensive Cancer Center and Department of Pathology (K. Clausen) and Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 January 1989 through 31 December 1989. (Project 765857 - Continuation)

$294,213.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neurotransmitters and Inflammatory Mediators in Tooth Movement, Orthodontics (Z. Davidovitch), 1 December 1988 through 30 November 1989. (Project 767223 - New)


$200,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Philippines Rural Financial Services Project, Department of Agricultural Economics and Rural Sociology (R. L. Meyer), 1 January 1989 through 31 December 1990. (Project 763301 - Continuation)

$196,000.00 - National Science Foundation, Washington, D.C., A Program on Electronic Structure, Department of Physics (K. G. Wilson), 1 October 1988 through 30 September 1989. (Project 767182 - New)

$180,000.00 - National Science Foundation, Washington, D.C., Genetic Analysis of Bacterial Development, Department of Microbiology (K. E. Kendrick), 1 February 1989 through 31 January 1991. (Project 767258 - New)

$176,205.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Psychopathology and Grief in Children Post-Parental Death, Department of Psychiatry (E. B. Weller), 1 February 1989 through 31 January 1990. (Project 767244 - New)

$173,128.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neural Control of Human Intestinal Mucosa, Department of Physiology (H. J. Cooke), 1 January 1989 through 31 December 1989. (Project 765037 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$164,000.00 - National Science Foundation, Washington, D.C., Kinetics, Spectroscopy and Mechanistic Studies of Carbenes, Biradicals and Radicals, Department of Chemistry (M. S. Platz), 1 February 1989 through 31 January 1990. (Project 767259 - New)

$157,666.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Pre- and Post-Operative T-Cell Function, Department of Surgery (R. M. Ferguson and C. G. Crosz), 1 February 1989 through 31 January 1990. (Project 766505 - Continuation)

$156,269.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Immunoprevention of Human T-Cell Leukemia Virus-I Infection, Department of Veterinary Pathobiology (R. G. Olson and L. E. Mathes), 1 December 1988 through 30 November 1989. (Project 765057 - Continuation)


$144,287.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, [B(a)P]-Metabolism and Modification of DNA in Human Skin Xenograft, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 1 January 1989 through 31 December 1989. (Project 766549 - Continuation)

$143,388.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Interdisciplinary Research on Wear of Materials, Department of Materials Science and Engineering (D. A. Rigney), 1 October 1988 through 30 September 1989. (Project 767230 - New)

$141,386.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypertension and Congestive Heart Failure: Genetic Model, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (S. A. McCune), 1 December 1988 through 30 November 1989. (Project 766383 - Continuation)

$125,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Optical Scattering Studies, Electroscience Laboratory, Department of Electrical Engineering (S. A. Collins, Jr.), 1 October 1988 through 30 September 1989. (Project 764394 - Continuation)

$115,000.00 - Department of Energy, Argonne, Illinois, Hydrological and Geochemical Response and Recovery in Disturbed Arctic Ecosystems, Byrd Polar Research Center and Department of Agronomy (K. R. Everett), 1 January 1989 through 31 December 1989. (Project 764231 - Continuation)

867
Federal Research Contracts/Grants (contd)

$108,000.00 - National Science Foundation, Washington, D.C., Structure and Dynamic Behavior of Selected Organolithium Compounds, Department of Chemistry (G. A. Fraenkel), 1 January 1989 through 31 December 1989. (Project 767225 - New)

$104,342.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Ethanol Disturbance of Gastrointestinal Nervous System, Department of Physiology (J. D. Wood), 1 February 1989 through 31 January 1990. (Project 765885 - Continuation)

$96,239.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Engineering Calculations for Communications Satellite Systems Planning, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton) and Department of Industrial and Systems Engineering (C. H. Reilly and C. A. Mount-Campbell), 1 January 1989 through 30 September 1989. (Project 762552 - Continuation)

$93,420.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stromal Defects in Retrovirus-Induced Myelosuppression, Department of Veterinary Pathobiology (G. J. Kociba), 20 December 1988 through 30 November 1989. (Project 767232 - New)

$92,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Controller Design Approaches and Evaluations, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 December 1988 through 30 September 1989. (Project 766464 - Continuation)

$88,375.00 - National Science Foundation, Washington, D.C., Computer Analysis and Simulation Laboratories for Physics Majors, Department of Physics (R. D. Knight), 1 January 1989 through 31 December 1989. (Project 767242 - New)

$85,061.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Fenfluramine and Methylphenidate in Mental Retardation, Nisonger Center (M. G. Aman), 1 February 1989 through 31 January 1990. (Project 767185 - New)

$80,080.00 - Department of Agriculture, Science and Education, Washington, D.C., Recovery of Nitrogenase from Oxygen Inactivation, Department of Microbiology (F. R. Tabita), 15 January 1989 through 31 August 1989. (Project 767274 - New)

$78,921.00 - National Science Foundation, Washington, D.C., Computer Analysis and Simulation Laboratories for Physics Majors, Department of Physics (R. D. Knight), 1 January 1989 through 31 December 1989. (Project 767242 - New)


$65,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Studies of Nonlinear Dynamics of Fluid Systems, Department of Physics (C. D. Andereck), 1 December 1988 through 30 November 1989. (Project 767269 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$64,709.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Penetration of Jets into a Turbulent Supersonic Airstream, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 20 February 1989 through 19 February 1990. (Project 767276 - New)

$64,396.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Bypass Surgery in Hibernation, Department of Physiology (H. J. Cooke), 1 January 1989 through 31 December 1989. (Project 765844 - Continuation)

$56,362.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Targeting of Organellar Protein Synthesis Factors, Department of Biochemistry (C. A. Breitenberger), 1 February 1989 through 31 January 1990. (Project 766576 - Continuation)

$56,000.00 - National Science Foundation, Washington, D.C., Anodic Oxidation Studies and Their Applications to Organic Synthesis, Department of Chemistry (J. S. Swenton), 1 July 1989 through 30 June 1990. (Project 766494 - Continuation)

$54,303.00 - National Science Foundation, Washington, D.C., Honey Bee Division of Labor: A Behavioral Genetic Analysis, Department of Entomology (R. E. Page, Jr.), 1 March 1989 through 28 February 1990. (Project 766637 - Continuation)

$51,786.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Mercury Toxicity and Carcinogenicity in Human Cells, Department of Microbiology and Immunology (M. V. Williams), 1 February 1989 through 31 January 1990. (Project 766606 - Continuation)

$48,091.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, ElectroScience Laboratory, Department of Electrical Engineering (R. Rudduck), 1 November 1988 through 31 August 1989. (Project 763724 - Continuation)

$47,595.00 - National Foundation of Arts and Humanities, National Endowment for the Humanities, Washington, D.C., "Columbus in America" -- An Art Exhibition, Office of International Affairs (C. Zacher), 1 January 1989 through 30 June 1989. (Project 767255 - New)

$46,315.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Argon Laser Trabeculoplasty Glaucoma Trial, Department of Ophthalmology (P. A. Weber), 22 February 1989 through 21 February 1990. (Project 764587 - Continuation)

$38,893.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Determination of Residual Stress and Effects in Thick Section Weldments for Hydraulic Structures, Department of Welding Engineering (C. L. Tsai), 12 December 1988 through 11 December 1989. (Project 767229 - New)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$33,248.00 - Department of Health and Human Services, Public Health Service, Centers for Disease Control, Atlanta, Georgia, Quantitative Measures of Wrist Motions, Department of Industrial and Systems Engineering (W. S. Marras), 1 January 1989 through 31 December 1989. (Project 767212 - New)

$30,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Experimental Study of Organized Structures in a Supersonic Shear Layer, Department of Mechanical Engineering (M. Samimy), 23 February 1989 through 22 February 1990. (Project 765794 - Continuation)

$28,800.00 - National Science Foundation, Washington, D.C., Application of Measure Theory to Probability and Banach Spaces, Department of Mathematics (M. Talagrand), 1 December 1989 through 30 November 1990. (Project 766743 - Continuation)

$25,925.00 - Department of the Navy, Naval Material Command, Bethesda, Maryland, Vortex Motion Past a Cavity with Elastic Obstructions, Department of Mechanical Engineering (A. T. Conlisk), 1 May 1988 through 6 April 1989. (Project 765323 - Continuation)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integration Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1989 through 30 June 1990. (Project 766995 - Continuation)

$22,267.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biotin Enzymes in Sudden Infant Death Syndrome Tissue, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (J. B. Allred), 1 February 1989 through 31 January 1990. (Project 766568 - Continuation)

$21,262.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Association Between Orthognathic Surgery and Sleep Apnea, Orthodontics (A. W. Walters), 1 January 1989 through 31 December 1989. (Project 767261 - New)

$15,350.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Splicing of Drosophila MLC-ALK PremRNA, Department of Molecular Genetics (S. Falkenthal and B. G. Leicht), 1 February 1989 through 31 January 1990. (Project 766565 - Continuation)

$10,000.00 - Department of the Air Force, Air Force Systems Command, Hanscom Air Force Base, Massachusetts, Spectroscopy of Molecular Ions and Their Clusters, Department of Chemistry (T. A. Miller), 1 October 1988 through 11 January 1989. (Project 765285 - Continuation)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$10,000.00 - Department of Agriculture, Soil Conservation Service, Columbus, Ohio, Socio-Economic Factors Affecting the Adoption of Soil Erosion Control Practices, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (T. L. Napier), 30 September 1987 through 29 September 1989. (Project 766387 - Continuation)

$2,500.00 - National Science Foundation, Washington, D.C., Catalytic Site of Calmodulin-Dependent Protein Kinases, Department of Chemistry (M. M. King), 1 February 1989 through 31 January 1991. (Project 767220 - Continuation)

TOTAL - FEDERAL AWARDS $6,592,275.00

State of Ohio Research Contracts/Grants

$424,774.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Ohio Adult Services Training Program, College of Social Work (R. E. Boettcher), 1 January 1989 through 30 June 1990. (Project 767200 - New)

$53,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey), 1 July 1988 through 30 June 1989. (Project 766925 - Continuation)

$11,600.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Entrepreneurs Research Project -- Year II, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766925 - Continuation)

$5,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Positive Parenting, Cooperative Extension Field Operations (R. Culbertson), 1 April 1988 through 31 March 1989. (Project 767237 - New)

$3,761.00 - Ohio Arts Council/Ohio Humanities Council Joint Program in the Arts and Humanities, Columbus, Ohio, Images of China: A Cultural Journey, Continuing Education Administration (J. L. Kramer), 1 January 1989 through 30 September 1989. (Project 767253 - New)


$2,000.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Art and the Emperor: A Public Interdisciplinary Symposium on the Arts of China, Department of History of Art (J. Andrews and J. Huntington) and Office of International Affairs (C. M. Chen), 1 December 1988 through 30 June 1989. (Project 767270 - New)

$1,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Art and the Emperor: A Public Interdisciplinary Symposium on the Arts of China, Department of History of Art (J. Andrews and J. Huntington) and Office of International Affairs (C. M. Chen), 3 December 1988 through 30 June 1989. (Project 767257 - New)

871
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$962.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Adrienne Kennedy Workshops, Department of Theatre (A. L. Woods), 28 November 1988 through 15 February 1989. (Project 767224 - New)

TOTAL - STATE OF OHIO AWARDS $ 505,381.00

Industrial Research Contracts/Grants


$388,158.00 - General Electric Company, Louisville, Kentucky, Facilitating Training for the GE/MABE Leiser Plant in San Luis Potosi, Mexico, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 30 June 1990. (Project 767250 - New)

$150,000.00 - Cargill, Inc., Minneapolis, Minnesota, New Carbohydrate-Based Polymers, Department of Chemistry (M. R. Callstrom), 1 February 1989 through 30 September 1991. (Project 767268 - New)

$128,860.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Pack Cementation Coating of Iron-Based Alloys, Department of Materials Science and Engineering (R. A. Rapp), 1 December 1988 through 31 October 1989. (Project 766509 - Continuation)

$123,000.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 1 October 1988 through 30 September 1989. (Project 766726 - Continuation)

$105,000.00 - Ross Laboratories, Columbus, Ohio, Maximizing Yield of Specific Antibody in Mammary Secretion of Lactating Dairy Cows, Department of Dairy Science - OARDC (K. L. Smith), 1 January 1989 through 31 December 1989. (Project 765238 - Continuation)

$96,000.00 - Pfizer, Inc., Groton, Connecticut, A Randomized Multicenter Study of the Efficacy, Safety and Tolerance of Fluconazole or Clotrimazole Troches in the Treatment of Patients with Oropharyngeal Candidiasis in Association with Acquired Immunodeficiency Syndrome, Department of Internal Medicine (S. L. Koletar), 1 November 1988 through 31 October 1989. (Project 765696 - Continuation)

$91,569.00 - Calbiochem Corporation, La Jolla, California, Overproduction of Daunomycin, Department of Microbiology (W. R. Strohl), 1 January 1989 through 31 December 1989. (Project 767236 - New)

$74,825.00 - TRW, San Diego, California, Multifunction Antenna Study, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 2 July 1988 through 30 June 1989. (Project 765410 - Continuation)

$66,516.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Single Oral Dose Safety Study of CGS-13429A in Volunteers, Department of Pharmacology (N. Gerber), 15 October 1988 through 14 April 1989. (Project 765696 - Continuation)
## Industrial Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Company/Institution</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>$59,197.00</td>
<td>Pfizer, Inc., Groton, Connecticut, Phase 1 Study to Determine the Difference Between Urine Concentrations of CP-73,850 at Steady State and the Urine Solubility of CP-73,850 in Healthy Volunteers, Department of Pharmacology (N. Gerber), 1 August 1988 through 14 September 1988. (Project 765696 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$53,687.00</td>
<td>Marion Laboratories, Inc., Kansas City, Missouri, Therapeutic Trials of Campylobacter pylori Gastritis, Department of Veterinary Pathobiology (G. S. Krakowka), 1 May 1988 through 30 April 1990. (Project 766744 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$49,975.00</td>
<td>Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1989 through 31 December 1989. (Project 762165 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$20,000.00</td>
<td>Universal Energy Systems, Inc., Dayton, Ohio, Knowledge Development for the Rule-Based Process Automation of Resin Transfer Molding, Department of Chemical Engineering (L. J. Lee), 1 January 1989 through 15 December 1989. (Project 767240 - New)</td>
<td></td>
</tr>
<tr>
<td>$19,966.00</td>
<td>Universal Energy Systems, Inc., Dayton, Ohio, Modeling Low Velocity Impact of Composites Using a Discrete Laminate Theory, Department of Civil Engineering (W. E. Wolfe), 1 January 1989 through 31 December 1989. (Project 767235 - New)</td>
<td></td>
</tr>
<tr>
<td>$15,128.00</td>
<td>Honda of America Manufacturing, Inc., Marysville, Ohio, Enhancing the Japanese Children's Acculturation Process, Department of Educational Studies: Humanities, Science, Technological and Vocational (K. Samimy), 1 January 1989 through 31 December 1989. (Project 767264 - New)</td>
<td></td>
</tr>
<tr>
<td>$15,015.00</td>
<td>Ross Laboratories, Columbus, Ohio, Determination of the Mechanism of Deposit Formation During UHT Treatment of Milk-Based Infant Formula, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (M. E. Mangino), 21 October 1988 through 31 December 1989. (Project 767246 - New)</td>
<td></td>
</tr>
<tr>
<td>$15,000.00</td>
<td>Freightliner Corporation, Charlotte, North Carolina, The Conduct of Focused Research and the Consequent Development of a Conceptual Cab Interior System for an Advanced Class 8 Truck, Department of Industrial Design (R. F. Butter), 1 July 1988 through 30 June 1989. (Project 767275 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$8,623.00</td>
<td>Honda of America Manufacturing, Inc., Marysville, Ohio, Basic Skill Requirements of Honda Production Associates, College of Education - Administration (J. J. Buffer), 5 December 1988 through 31 March 1989. (Project 767233 - New)</td>
<td></td>
</tr>
</tbody>
</table>
Industrial Research Contracts/Grants (contd)

$8,274.00 - The Upjohn Company, Kalamazoo, Michigan, Evaluation of Insect Cell Lines for Gene Expression, Department of Entomology (W. F. Hink), 17 January 1989 through 16 January 1992. (Project 767254 - New)

$4,876.30 - Bausch and Lomb, Rochester, New York, Silicone Lens Study, College of Optometry (J. T. Barr), 1 November 1988 through 28 February 1990. (Project 767245 - New)

$2,420.00 - Abbott Laboratories, Abbott Park, Illinois, A Comparative Study of Polymer Coated Erythromycin Versus Doxycycline in the Treatment of Chlamydia trachomatis Genital Infections, College of Pharmacy (J. A. Visconti) and University Health Service (D. I. Charles), 27 January 1988 through 26 January 1990. (Project 766570 - Continuation)


Equipment/Computer Software - Digital Equipment Corporation, Hudson, Massachusetts, External Research Program, Department of Linguistics (M. E. Beckman), 1 October 1988 through 30 September 1989. (Project 767231 - New) (Approximate Dollar Value - $37,500)


TOTAL - INDUSTRIAL AWARDS $2,472,699.30

Other Non-Federal Research Contracts/Grants


$148,078.00 - University of Chicago, Argonne, Illinois, Optical Readout System for the ZEUS Barrel Calorimeter, Department of Physics (T. A. Romanowski), 1 January 1989 through 30 April 1989. (Project 767107 - Continuation)

$82,443.00 - University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, Ohio, Ohio Developmental Disabilities Prevention Continuing Education, Nisonger Center (S. R. Schroeder and J. Rojahn), 1 January 1989 through 31 December 1989. (Project 764528 - Continuation)

$72,000.00 - The University of Rochester, Rochester, New York, Parkinson's Study Group, Department of Neurology (G. W. Paulson), 1 April 1988 through 31 March 1989. (Project 766244 - Continuation)

$56,744.00 - University of Texas, Houston, Texas, Evaluation of Home Uterine Contraction Monitoring in Evaluation of High Risk Pregnancies, Department of Obstetrics and Gynecology (J. D. Iams), 1 December 1988 through 30 November 1989. (Project 766646 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$53,320.00 - Elsa U. Pardee Foundation, Midland, Michigan, Role of Parathyroid Hormone-Related Protein in the Pathogenesis of Cancer-Associated Hypercalcemia, Department of Veterinary Pathobiology (T. J. Rosol), 1 January 1989 through 28 February 1990. (Project 767226 - New)


$32,473.00 - The University of Kansas, Lawrence, Kansas, Biomimetic Metal Complexes of Macrocyclic Ligands, Department of Chemistry (B. E. Bursten), 1 December 1988 through 30 November 1989. (Project 767241 - New)

$29,967.00 - Muscular Dystrophy Association, New York, New York, Calcium2+, Drug, and Kinase Modulation of Calcium Channels, Department of Physiological Chemistry (J. D. Johnson), 1 January 1989 through 31 December 1989. (Project 763866 - Continuation)

$25,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Adverse Effect of Gossypol and Gossypol-Containing Milk on Reproductive Function in Nursing Dams and Their Pups, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 1 January 1989 through 31 December 1989. (Project 766601 - Continuation)

$24,030.00 - The George Gund Foundation, Cleveland, Ohio, Using Television to Enhance Public Information Levels About the Great Lakes, School of Natural Resources (R. W. Fortner) and Department of Educational Studies: Humanities, Science, Technological and Vocational (V. J. Mayer), 1 January 1989 through 31 December 1989. (Project 767248 - New)


$22,990.00 - Muscular Dystrophy Association, New York, New York, Calcineurin -- Membrane Interactions, Department of Chemistry (M. M. King), 1 January 1989 through 31 December 1989. (Project 765869 - Continuation)

$20,000.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 January 1989 through 31 May 1989. (Project 766536 - Continuation)

$17,949.00 - Indiana Department of Mental Health, Indianapolis, Indiana, Indiana Homeless Mentally Ill: Mobile Screening and Case Management, College of Social Work (R. J. First), 1 December 1988 through 30 November 1989. (Project 767275 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)


$13,080.00 - Muskingum County Board of Mental Retardation and Developmental Disabilities, Zanesville, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 September 1988 through 31 August 1989. (Project 767169 - Continuation)

$11,600.00 - Yassenoff Foundation, Columbus, Ohio, Developing a Model, Robotically-Aided Science Education Environment, Department of Educational Policy and Leadership (R. Howell), 1 January 1989 through 31 December 1989. (Project 767273 - Continuation)

$10,346.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Agribusiness Training Project in the Dominican Republic, Office of International Programs in Agriculture (D. O. Hansen), 1 October 1988 through 28 February 1989. (Project 767137 - Continuation)

$9,527.00 - University of Minnesota, St. Paul, Minnesota, Molecular Basis of Candida Infections in Hyperglycemic Hosts, Department of Microbiology (K. E. Kendrick), 1 November 1988 through 31 October 1989. (Project 767234 - New)

$6,888.00 - Indonesian Government, Jakarta, Indonesia, Refresher C Programs for Faculties of the Institutes for Teacher Training and Education and for the Faculties of Teacher Training and Education of Indonesia, College of Education - Administration (J. J. Buffer), 1 October 1988 through 31 July 1989. (Project 767165 - Continuation)

$5,947.25 - American Agricultural Economics Association, Ames, Iowa, Priority Data on Agricultural and Rural Areas: A Survey of Agricultural and Rural Social Scientists, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak) and Department of Agricultural Economics and Rural Sociology (W. S. Chern and L. Tweeten), 1 April 1988 through 31 December 1989. (Project 766667 - Continuation)

$4,223.00 - South-Western City Schools, Grove City, Ohio, Student Coordinator for Health Education Program, School of Health, Physical Education and Recreation (L. B. Meeks and P. Heit), 1 January 1989 through 31 July 1989. (Project 767243 - New)

$3,000.00 - Butler County Children's Services Board, Hamilton, Ohio, Development of Living Skills, Cooperative Extension Field Operations (P. H. Simmons), 1 December 1988 through 28 February 1989. (Project 765233 - Continuation)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$2,275.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1989. (Project 785208 - Continuation)

$2,145.00 - Battelle Memorial Institute, Columbus, Ohio, Particle Impact Test on Steel Plates, Department of Civil Engineering (W. E. Wolfe), 1 January 1989 through 31 December 1989. (Project 767238 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $ 954,142.31

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$200,000.00 - Ohio Department of Transportation, Columbus, OH, "Rural Technology Assistance Program," Department of Civil Engineering, 1 January 1989, through 31 December 1989. (529791)

$97,267.00 - Thomas A. Edison Program, Columbus, OH, and Ribtec, Columbus, OH, "Coilable Ultrahard Hardfacing Welding Consumables," Department of Welding Engineering, 1 October 1988 through 31 March 1990. (312491)

$50,000.00 - Thomas A. Edison Program, Columbus, OH, and Isotech, Miamisburg, OH, "Isotopically Selective Chemical Reactions Initiated by Laser Radiation," Department of Mechanical Engineering, 1 October 1988 through 31 December 1989. (529786)

$40,000.00 - additional funding from the Thomas A. Edison Program, Columbus, OH, and Ribtec, Columbus, OH, "Direct Cast Steel Strip," Department of Materials Science and Engineering, 1 October 1988 through 30 September 1989. (529783, Ext. 1)

$19,515.00 - Ohio Coal Development Office, Columbus, OH, "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," Department of Materials Science and Engineering, 1 August 1988 through 31 December 1988. (529981)

$12,721.00 - Ohio Coal Development Office, Columbus, OH, "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," Department of Chemical Engineering, 1 August 1988 through 31 December 1989. (529980)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $ 419,503.00

Industrial and Other Sponsored Research and Development

April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$125,000.00 - from various industry for Membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$115,000.00 - additional funding from EPRI, Palo Alto, CA, "Modeling of Electromagnetic Fields in Substations," Department of Electrical Engineering, 1 August 1988 through 31 December 1989. (529770, Ext. 1)

$72,125.00 - from 34 sponsors of 60 development projects in six departments/research areas of the college.

$66,429.00 - Columbia Gas System Service Corp., Columbus, OH, "Absorber/Condenser Redesign," Department of Mechanical Engineering, 15 November 1988, through 14 August 1989. (312489)

$63,594.00 - additional funding from General Electric, Cincinnati, OH, "Plasma Arc Tunnel System," Department of Aeronautical and Astronautical Engineering, 9 September 1987, through 31 December 1989. (312432, Ext. 2 & 3)


$50,000.00 - Lockheed Missiles & Space Co., Inc., Sunnyvale, CA, "Technical Assistance/Large Compact Range Project," Department of Electrical Engineering, 1 December 1988 through 30 June 1989. (312496)


$40,214.00 - University of Cincinnati/Ohio Board of Regents, Columbus, OH, "Ohio Aerospace Institute Ad Hoc Action Committee Support, Department of Mechanical Engineering, 1 November 1988 through 31 October 1989. (529789)

$40,000.00 - from various industry for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$40,000.00 - from various industry for membership in "Compact Radar Cross Section Measurement Ranges Research and Development Consortium," Department of Electrical Engineering. (312884)

$37,500.00 - ICRA, Inc., New York, NY, "Thermal Characteristics of Copper Alloy Tooling in Plastic Molding," Department of Mechanical Engineering, 1 July 1988, through 30 June 1990. (529762, Ext. 1)

$26,000.00 - General Motors Research Laboratories, Warren, MI, "Improving the Resistance of High Strength Steel Fasteners to Hydrogen Embrittlement," Department of Materials Science and Engineering, 1 September 1985 through 31 August 1989. (529695, Ext. 3)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$25,740.00 - Scantech Corporation, Sante Fe, New Mexico, "Research and Development for a Tomographic Digital Diode Array Radiography System," Nuclear Engineering Program, 1 October 1988 through 30 September 1989. (529790)


$25,000.00 - Rinaldo Piaggio, Genova, Italy, "An Analysis of Advanced Propeller for Piaggio P. 180," Department of Aeronautical and Astronautical Engineering, 2 February 1987, through 31 March 1989. (312401, Ext. 1)

$21,851.00 - Edison Welding Institute, Columbus, OH, "Welding of Metal Matrix Composites," Department of Welding Engineering, 1 July 1988, through 30 June 1989. (529323, Ext. 1)

$(20,000.00) - reduced funding from Bell Helicopter, Fort Worth, TX, "Gear Noise Modeling and Prediction for BHTI Future Attack Rotorcraft (FAR) Transmission," Department of Mechanical Engineering. (312476)

$12,000.00 - Embassy of Egypt, Washington, DC, "Peace Fellow-Abdalla A. El-Sharkaway," Department of Mechanical Engineering, 1 December 1988, through 31 May 1990. (312488)


$8,000.00 - from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$6,000.00 - from various industry for "Participating Industry Program to Develop Computer-Aided Machine Design Modules - Phase II," Department of Mechanical Engineering. (312594)

$2,145.00 - Edison Welding Institute, Columbus, OH, "Investigation of Weldability Test Techniques," Department of Welding Engineering, 1 July 1988 through 30 June 1989. (529320, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $1,036,244.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Rita C. and Oscar L. Thomas, Sr. Fund

The Rita C. and Oscar L. Thomas, Sr. Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from and in honor of Oscar L. Thomas, Sr., (B.A. '26) of Columbus, Ohio.
Establishment of Named Funds

The Rita C. and Oscar L. Thomas, Sr. Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for support of the College of Business, to expand and support the library of the College of Business, and for such other purposes as shall be determined by the Dean of the College of Business.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Lloyd G. and Virginia Sharp Memorial Scholarship Fund for Carroll County

The Lloyd G. and Virginia Sharp Memorial Scholarship Fund for Carroll County was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Lloyd G. and Virginia Sharp of Carrollton, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income from this fund shall be used to provide one or more scholarships to students from Carroll County who are entering freshmen or currently enrolled students in either The Ohio State University College of Agriculture at Columbus, or the Agricultural Technical Institute at Wooster. Criteria for selection shall include outstanding scholastic achievement and demonstrated leadership potential through participation in extra-curricular activities. Preference will be given to those students with financial need. Selection will be made by the University Committee on Student Financial Aid in consultation with the Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund

The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The
Establishment of Named Funds (contd)

The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund (contd)

Ohio State University Development Fund from members of The Ohio State University's 1968 National Championship Football Team and their families.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide or supplement educational costs toward a degree at The Ohio State University for former varsity football players and coaches and their spouses and first and second generation children. Any annual income not expended for educational needs may be used at the discretion of the Director of Athletics to enhance the varsity football program. Recipients of educational scholarship assistance from this endowment will be selected and approved by the Director of Athletics in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to recommendations from the senior administrative official of the University who has direct responsibility for the intercollegiate varsity athletic program at The Ohio State University in order to carry out the desire of the donors.

The Sue Ann Dowell Schott Agricultural Fund

The Sue Ann Dowell Schott Agricultural Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. Glen C. Dowell (B.A. '46, M.D. '49) and Mrs. Jo Ann Dowell (B.S. '50) in honor of their daughter, Sue Ann Dowell Schott (B.A. '82).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Annual income shall be used to fund graduate fellowships, sponsor seminars or provide support for programs and activities that will assist the College of Agriculture in helping farmers enhance their profitability and increase their income. The income from this fund may be used to support a center or endowed chair consistent with these purposes, that may be established by this donor or others at a later date. All expenditures shall be approved by the Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Ohio State University Marion Campus
Founders Scholarship Endowment Fund

The Ohio State University Marion Campus Founders Scholarship Endowment Fund was established April 7, 1989, in accordance with the guidelines approved by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund for the benefit of The Ohio State University at Marion from the founders of the Marion Campus and the current trustees of the Marion Area College Foundation, Inc., Edwin L. Mitchell (B.A. '34, J.D. '37), Ralph W. Howard (J.D. '48), Robert S. Brown (M.A. '48, Ph.D. '54), Thomas Wagner (D.D.S '55), Joseph W. Galloway, Jr. (B.S.Bus.Adm. '48), A. O. Gross (M.A. '47) and James Burris (B.Arch. '51), representing donors who oversubscribed the campus acquisition campaign in 1965.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Fifteen percent (15%) of the annual income distributed shall be added to the fund's principal. The remaining eighty-five percent (85%) shall be used for one or more scholarships to deserving students of merit who are attending The Ohio State University at Marion. Scholarship recipients shall be selected by The Ohio State University at Marion Scholarship Committee in consultation with the Dean of The Ohio State University at Marion and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit The Ohio State University at Marion in perpetuity. If the need for this fund or the allocation of income provided for above should cease to exist or so diminish as to provide unused income, then another use or allocation shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Virginia A. Arnold Scholarship Fund
in Elementary Education

The Virginia A. Arnold Scholarship Fund in Elementary Education was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. Virginia Arnold, (M.A. '65, Ph.D. '72) of Richmond, Virginia.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to students enrolled in a program leading to teaching certification in early and middle childhood education. Selection of the recipients shall be based on high scholastic achievement and economic need and shall be made by the Dean of the College of Education or his designee in consultation with the University Committee on Student Financial Aid.
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Virginia A. Arnold Scholarship Fund
in Elementary Education (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer who is responsible for early and middle childhood education in order to carry out the desire of the donor.

The Dr. Henry J. Detmers Fund in Veterinary Medicine

The Dr. Henry J. Detmers Fund in Veterinary Medicine was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from great-granddaughters of Dr. Henry J. Detmers, in recognition of his service as the first and sole Chief of the School of Veterinary Medicine during the ten years preceding the establishment of the College of Veterinary Medicine in 1895.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used at the discretion of the Dean to support student needs, innovative teaching and curricular development, research to alleviate animal suffering, needed equipment, and other priorities deemed important to maintain and enhance the standing of the College.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors, with preference being given to recommendations of the Dean of the College of Veterinary Medicine.

Change in Name and Description of Named Fund

The Robert E. Oscar Scholarship Fund
in International Business

The Robert E. Oscar Professorship in International Business Fund was established February 5, 1982. The name and description were changed April 7, 1989, to The Robert E. Oscar Scholarship Fund in International Business, by the Board of Trustees of The Ohio State University with the balance of the Robert E. Oscar Professorship in International Business Fund, and derived from a bequest to The Ohio State University Development Fund from Robert E. Oscar (B.S.Bus.Adm. '38) of Chicago, Illinois, and by gifts from Mr. and Mrs. Leonard S. Milazzo of Bentleyville, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name and Description of Named Fund (contd)

The Robert E. Oscar Scholarship Fund
in International Business (contd)

The annual income is to be used to provide scholarships for students who are majoring in international business and who have demonstrated academic ability and need for financial assistance. The selection of the recipient is to be made upon the recommendation of the University Committee on Student Financial Aid in cooperation with the Dean of the College of Business.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Change in Description of Named Fund

The Sphinx Endowment Fund

The Sphinx Endowment Fund was established November 5, 1982, with gifts from members and friends of the Sphinx Senior Class Honor Society. The description was revised December 14, 1984, and was further revised April 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income may be used to provide funds for any or all of the following:

(1) Scholarships to one or more of the current class of active Sphinx members who are entering or in their senior year of undergraduate study;

(2) the continued maintenance of current and the addition of new class plaques to the Sphinx Plaza;

(3) the costs of communications with Sphinx members for gift support and reunion activities; and

(4) the support of current active chapter activities.

To the extent annual income is not adequate, principal may be used for the same purposes for which income may be used. Principal may also be used for the further development of the site and structures in and adjacent to the Sphinx Plaza and for the upkeep and maintenance of such further developments. At the end of each of the University's fiscal years, any unallocated income balance shall be transferred to the principal account. All expenditures of income and principal shall be approved in advance by the affirmative vote of a majority of the members of the Sphinx Alumni Council which shall be made up of the current active chapter Sphinx President, the Sphinx
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

The Sphinx Endowment Fund (contd)

faculty advisor, the Director of Alumni Affairs, and three Sphinx alumni members appointed by The Ohio State University Alumni Association Board of Directors.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees of The Ohio State University.

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - February 1989

Federal Research Contracts/Grants

$400,000.00 - Department of Education, Washington, D.C., Rehabilitation Engineering Center for the Quantification of Human Performance, Department of Surgery (S. R. Simon), Department of Preventive Medicine (W. S. Pease), Department of Industrial and Systems Engineering (P. J. Smith and W. S. Marras), and Department of Electrical Engineering (H. N. Hemami), 1 February 1989 through 31 January 1990. (Project 766622 - Continuation)

$360,000.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Educational Resources Information Center (ERIC) Clearinghouse on Adult, Career, and Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 31 December 1989. (Project 766522 - Continuation)


$189,600.00 - Department of Agriculture, Science and Education, Washington, D.C., The Organization and Performance of World Food Systems, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (D. R. Henderson), 1 January 1989 through 31 December 1989. (Project 767311 - New)

$149,228.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Constitutive Parameter Measurements of Lossy Materials, ElectroScience Laboratory, Department of Electrical Engineering (A. K. Dominek), 1 February 1989 through 31 January 1990. (Project 767291 New)

$148,938.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, The Ohio State University Advanced Nurse Training Grant, Department of Family and Community Nursing (E. M. Menke), 1 March 1989 through 28 February 1990. (Project 764615 - Continuation)

$135,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Research Program on the Supersonic Throughflow Turbofan,
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 20 February 1989 through 19 February 1990. (Project 767282 - New)

$126,983.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanistic Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 April 1989 through 31 March 1990. (Project 766861 - Continuation)

$126,084.00 - Department of Agriculture, Science and Education, Washington, D.C., New Uses for Agricultural Products, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (D. R. Henderson, N. Rask and C. R. Zulauf), 1 September 1988 through 31 August 1989. (Project 767320 - New)

$125,620.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cellular Mechanisms of Human Immunosenescence, Department of Internal Medicine (R. Whisler), 1 March 1989 through 28 February 1990. (Project 763761 Continuation)

$123,776.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Site Specific Modification of Human Cellular DNA, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 31 January 1989 through 30 January 1990. (Project 765728 - Continuation)

$120,121.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Support of Defects Investigations, Department of Mechanical Engineering (D. A. Guenther), 16 November 1988 through 15 November 1989. (Project 765180 - Continuation)

$119,350.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A 60 Kilodalton Oncofetal Protein Associated with Carcinogenesis, Department of Physiological Chemistry (T. E. Webb), 1 February 1989 through 31 January 1990. (Project 765588 - Continuation)

$115,859.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Generic Tasks for Knowledge-Based Problem Solving: Extensions and New Directions, Department of Computer and Information Science (B. Chandrasekaran), 19 December 1988 through 18 December 1989. (Project 765305 - New)


$111,800.00 - National Science Foundation, Washington, D.C., Studies Involving Molecules and Intermediates of Theoretical Interest, Department of Chemistry (L. A. Paquette), 1 September 1989 through 31 August 1990. (Project 766349 Continuation)

$110,000.00 - National Science Foundation, Washington, D.C., Biochemistry and Molecular Biology of Polymeric Defense Barriers in Plants, Biotechnology Program (P. E. Kolattukudy), 1 March 1989 through 28 February 1990. (Project 767325 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$100,000.00 - National Science Foundation, Washington, D.C., Numerical Competence in the Chimpanzee (Pan troglodytes), Department of Psychology (G. G. Berntson and S. T. Boysen), 15 February 1989 through 31 July 1990. (Project 767219 - New)

$81,634.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Energetics of Contraction in Single Muscle Cells, Department of Physiology (J. A. Rall), 1 April 1989 through 31 March 1990. (Project 760993 - Continuation)

$80,372.00 - National Science Foundation, Washington, D.C., Raman and Spatially Resolved Spectroelectrochemistry, Department of Chemistry (R. L. McCreery), 15 February 1989 through 31 January 1990. (Project 767290 - Continuation)

$80,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Exploratory Research on the Protection of Carbon-Carbon Composites Against Oxidation at Very High Temperatures (<3000°F) with Engel-Brewer and Other Intermetallic Compounds, Department of Materials Science and Engineering (G. R. St. Pierre), 16 January 1989 through 15 January 1990. (Project 767322 - Continuation)

$80,000.00 - National Science Foundation, Washington, D.C., Effects of Ethylene on Nodule Development and Cloning of the Rhizobitoxine Genes, Biotechnology Program and Department of Agronomy (N. K. Peters), 15 March 1989 through 28 February 1990. (Project 767324 - New)


$77,000.00 - National Science Foundation, Washington, D.C., Chemotaxis as a Determinant of Competitive Success in Soil, Rhizosphere, and Symbiotic Infection, Department of Agronomy - OARDC and Department of Agronomy (W. D. Bauer), 1 May 1989 through 30 April 1990. (Project 767326 - New)

$75,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Unified Head Injury Theory, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1989 through 31 December 1989. (Project 764510 - Continuation)

$75,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Theoretical Studies of the Surface Properties of Liquid Semiconductors and Metals, Department of Physics (D. G. Stroud), 1 March 1989 through 28 February 1990. (Project 767300 - New)

$75,000.00 - National Science Foundation, Washington, D.C., Molecular Genetics of Extracellular Polysaccharide Synthesis in Erwinia stewartii, Department of Plant Pathology - OARDC and Department of Plant Pathology (D. L. Coplin), 1 April 1989 through 31 March 1990. (Project 766330 - Continuation)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$74,786.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Studies in Electromagnetic Scattering, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 February 1989 through 31 January 1990. (Project 763822 - Continuation)

$74,300.00 - National Science Foundation, Washington, D.C., Structural Relaxation in Oxide Glasses, Department of Materials Science and Engineering (P. K. Gupta), 1 February 1989 through 31 January 1990. (Project 766572 - Continuation)

$70,136.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Measurement of Electromagnetic Scattering by Open-Ended Waveguide Cavity Configurations, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 February 1989 through 31 October 1989. (Project 767286 - New)

$70,000.00 - National Science Foundation, Washington, D.C., Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18K, Department of Zoology (P. A. Colinvaux), 1 February 1989 through 31 January 1990. (Project 766323 - Continuation)

$69,915.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Precomplexation and Activation of Carbohydrate Phosphate Esters, Department of Chemistry (A. W. Czarnik), 1 March 1989 through 28 February 1991. (Project 766706 - Continuation)

$66,711.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Passivity and Breakdown of Oxide Films on Aluminum Alloys Produced Using Nonequilibrium Processing Methods, Department of Materials Science and Engineering (G. R. St. Pierre), 16 January 1989 through 30 September 1989. (Project 767297 - New)

$63,099.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Three-Dimensional Structure of Boundary Layers in Transition to Turbulence, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 April 1989 through 31 March 1990. (Project 766695 - Continuation)

$56,465.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Electromagnetic Properties of Ice-Coated Surfaces, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr. and W. D. Burnside), 14 June 1989 through 13 September 1989. (Project 766822 - Continuation)

$55,980.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Multi-Layer Film Deposition for High Tc (Transition Temperatures) Superconductors, Department of Electrical Engineering (G. J. Valeo), 29 January 1989 through 28 January 1990. (Project 766577 - Continuation)

$45,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 April 1989 through 30 September 1989. (Project 766854 - Continuation)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$42,920.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Proficiency-Oriented Materials for Arabic, Department of Judaic and Near Eastern Languages and Literatures (F. J. Cadora), 1 July 1989 through 30 June 1990. (Project 766882 - Continuation)

$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (D. L. Cox), 1 July 1988 through 31 December 1989. (Project 766937 - Continuation)

$34,000.00 - National Science Foundation, Washington, D.C., Quasicrystals and Superfluid Helium, Department of Physics (T. L. Ho), 1 June 1989 through 31 May 1990. (Project 766683 - Continuation)


$30,000.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Sea Grant Internship, Center for Lake Erie Area Research (J. M. Reutter), 30 January 1989 through 29 January 1990. (Project 767010 - Continuation)

$28,252.00 - National Science Foundation, Washington, D.C., The Ohio State University Young Scholar Program, Department of Chemistry (M. H. Klapper) and College of Biological Sciences - Administration (A. Ackermann-Brown), 1 March 1989 through 31 January 1991. (Project 766663 - Continuation)

$27,662.00 - National Science Foundation, Washington, D.C., Collaborative Research: Systematics, Paleoeconomy, and Extinction of Late Osagean Crinoids from Iowa, Illinois, and Missouri, Department of Geology and Mineralogy (W. I. Ausich), 1 June 1989 through 31 May 1990. (Project 766421 Continuation)

$23,041.00 - Department of Defense, Defense Construction Supply Center, Columbus, Ohio, Recreational Facility and Program Management: An Analysis of Civilian Work Force Recreational and Wellness Practices of the Defense Construction Supply Center, Columbus, Ohio, School of Health, Physical Education and Recreation (W. A. Sutton and W. J. Rudman), 1 February 1989 through 31 January 1990. (Project 767308 - New)

$20,152.00 - National Science Foundation, Washington, D.C., Traveling Wave Solutions of Reaction Diffusion Systems, Department of Mathematics (D. Terman), 1 December 1989 through 30 November 1990. (Project 766089 - Continuation)

$18,753.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Methyl Chloride Feature in the ATMOS Spectra, Department of Physics (K. N. Rao), 1 January 1989 through 31 December 1990. (Project 767312 - Continuation)
Federal Research Contracts/Grants (contd)

$17,997.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Impact Design Criteria for Helmets, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1989 through 31 December 1989. (Project 767287 - New)

$14,050.00 - National Science Foundation, Washington, D.C., Comparison and Development of Finite Element Modeling for Sheet-Forming Analysis, Department of Materials Science and Engineering (R. H. Wagoner), 1 February 1989 through 31 January 1992. (Project 767283 - New)

$11,500.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Mechanisms of Aromatic 1-Amino Acid Decarboxylase (AAAD) Activation in the Retina by Light, Department of Pharmacology (N. H. Neff and C. P. Silvia), 1 March 1989 through 28 February 1990. (Project 767315 - New)

$10,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Omnidirectional Dummy Head and Neck, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1989 through 31 December 1989. (Project 763945 - Continuation)

$7,099.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Robust Stability and Performance for Linear Systems with Combined Structured and Nonstructured Uncertainty, Department of Aeronautical and Astronautical Engineering (R. K. Yedavalli), 16 September 1989 through 30 September 1989. (Project 766964 - Continuation)

$4,000.00 - National Science Foundation, Washington, D.C., The Role of Calcium in Root Growth and Gravitropism, Department of Botany (M. L. Evans), 15 March 1989 through 30 April 1990. (Project 765780 - Continuation)

$881.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1988 through 30 November 1989. (Project 761196 - Continuation)
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$9,720.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, College of Education - Administration (T. M. Stephens), 1 July 1988 through 30 June 1989. (Project 766857 - Continuation)

$4,600.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, The Other Side: Hispanic Geo-Politics, Culture, and Religion, Wexner Center for the Visual Arts (R. Stearns), 2 January 1989 through 30 April 1989. (Project 767313 - New)

$1,296.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (B. Vondracek and D. A. Culver), 1 April 1989 through 30 June 1989. (Project 766202 - Continuation)

$1,135.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Robert Post -- In Performance, Department of Dance (V. J. Blaine), 10 January 1989 through 1 April 1989. (Project 767288 - New)

TOTAL - STATE OF OHIO AWARDS $ 277,265.00

Industrial Research Contracts/Grants

$89,887.00 - Jarrow Formulas, Inc., Los Angeles, California, Early Cancer Detection Method, Department of Radiology (S. M. D'Ambrosio) and Department of Physiological Chemistry (R. W. Trewyn), 1 February 1989 through 31 January 1990. (Project 767284 - New)

$60,000.00 - Sandia Corporation, Albuquerque, New Mexico, Vertical-Axis Wind Blade Section Activities, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 1 February 1989 through 31 January 1990. (Project 767278 Continuation)


$25,891.00 - General Motors Corporation, Indianapolis, Indiana, Model Test Program on Gas Turbine Air Intake and Exhaust Uptake System, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 1 July 1988 through 30 June 1989. (Project 766095 - Continuation)

Industrial Research Contracts/Grants (contd)

$20,000.00 - Bell Helicopter Textron, Inc., Fort Worth, Texas, Gear Noise Modeling and Prediction for a Future Rotorcraft Transmission, Department of Mechanical Engineering (D. R. Houser), 12 August 1988 through 11 February 1990. (Project 767265 - New)

$16,000.00 - Genentech, Inc., South San Francisco, California, Tissue-Type Plasminogen Activator Versus Heparin for Acute Pulmonary Embolism: Effects on Right Ventricular Function and Pulmonary Perfusion, Department of Internal Medicine (J. E. Gadek and M. G. Lykens), 1 January 1989 through 31 December 1989. (Project 767281 - New)

$14,850.00 - Smith, Kline & French Laboratories, Philadelphia, Pennsylvania, Comparison of Intravenous 'Compazine' Combination Therapy to Intravenous Reglan Combination Therapy in the Management of Cisplatin-Induced Nausea and Vomiting in Cancer Patients, Department of Internal Medicine (E. H. Kraut), 1 January 1989 through 31 December 1989. (Project 767294 - New)

$12,575.00 - Universal Technology Corporation, Dayton, Ohio, Fabrication and Characterization of High Temperature Superconducting Films for Infrared Detectors, Department of Physics (T. R. Lemberger), 1 February 1989 through 30 April 1989. (Project 767285 - New)

$10,582.00 - Chernol, Inc., Greensboro, North Carolina, Effects of Esterification and Saturation of Tallow Fatty Acids on Fiber Digestibility and Milk Production of Dairy Cows, Department of Dairy Science - OARDC and Department of Dairy Science (M. L. Eastridge), 1 January 1989 through 31 December 1989. (Project 767280 - New)

$8,318.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 January 1989 through 31 March 1989. (Project 766470 - Continuation)

$6,800.00 - Caremark Plus, San Bernadino, California, Patient Education and Clinical Management Services, Department of Internal Medicine (S. P. Balcerzak), 1 October 1988 through 30 September 1991. (Project 767279 - New)

TOTAL - INDUSTRIAL AWARDS $ 356,130.00

Other Non-Federal Research Contracts/Grants

$247,600.00 - Brookhaven National Laboratory, Upton, Long Island, New York, Boron-Neutron Capture Therapy of Cancer, Department of Pathology (R. F. Barth), College of Pharmacy (A. H. Solway), Department of Mechanical Engineering (T. E. Blue), and Department of Surgery (J. H. Goodman), 1 October 1988 through 31 December 1989. (Project 766081 - Continuation)

$197,067.00 - Electric Power Research Institute, Palo Alto, California, Mechanistic Studies of Hot Corrosion in Utility Boilers, Department of Materials Science and Engineering (R. A. Rapp), 27 January 1989 through 31 December 1990. (Project 767296 - New)

$94,914.00 - Southwest Research Institute, San Antonio, Texas, Hydrogen Absorption and Potential Embrittlement of Candidate High-Level Nuclear Waste Package Containers in the Proposed Tuff Repository Environment, Department of Materials Science and Engineering (B. E. Wilde), 1 January 1989 through 31 December 1989. (Project 767129 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$86,310.00 - Nature Conservancy, Columbus, Ohio, Development of a Plan to Preserve the Big Darby Creek Watershed, Department of City and Regional Planning (S. I. Gordon) and Department of Landscape Architecture (J. W. Simpson), 1 January 1989 through 31 December 1989. (Project 767289 - New)

$55,000.00 - Muscular Dystrophy Association, New York, New York, Steroid Therapy of Duchenne Dystrophy -- Molecular Mechanisms, Department of Neurology (K. W. Rammohan), 1 January 1989 through 31 December 1989. (Project 766573 - Continuation)

$45,129.00 - Paralyzed Veterans of America, Washington, D.C., The Role of Weightbearing and FES-Induced Exercises on Bone Loss After an Acute Spinal Cord Injury, Department of Physical Medicine (W. J. Mysiw) and Department of Internal Medicine (R. D. Jackson), 1 January 1989 through 30 December 1989. (Project 767303 - New)


$34,819.00 - Iowa State University, Ames, Iowa, Spectroscopic Evaluation of Adhesive Bonds: Linear and Nonlinear Methods, Department of Welding Engineering (L. Adler), 1 October 1988 through 30 September 1989. (Project 767302 - Continuation)

$29,813.00 - Iowa State University, Ames, Iowa, Nondestructive Evaluation of Structural Adhesive Bonding for Aircraft Applications, Department of Welding Engineering (S. Rokhlin), 1 October 1988 through 30 September 1989. (Project 767304 - Continuation)

$25,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Effect of Parental Occupation on Pre-Term Birth, Spontaneous Abortion, Stillbirth, and Low Birth Weight, Department of Preventive Medicine (R. S. Hopkins), 1 January 1989 through 31 December 1989. (Project 767317 - New)

$24,940.00 - Morris Animal Foundation, Englewood, Colorado, In Vivo and In Vitro Examination of Cell Proliferation Kinetics in the Normal and Seborrheic Canine Epidermis, Department of Veterinary Clinical Sciences (K. W. Kwochka), 1 November 1988 through 31 October 1989. (Project 767307 - New)

$21,262.00 - Upper Arlington City Schools, Upper Arlington, Ohio, Career Internship Program with Upper Arlington Schools, Department of Educational Theory and Practice (J. J. Quaranta), 29 August 1988 through 26 May 1989. (Project 767293 - Continuation)

$18,000.00 - The Petroleum Research Fund, Washington, D.C., Catalytic Organometallic Reactions: Characterization of the Active Intermediates Using X-ray Induced Auger Spectroscopy and X-ray Photoelectron Spectroscopy, Department of Chemistry (M. R. Callstrom), 1 September 1989 through 31 August 1991. (Project 767323 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$14,568.00 - Indonesian Government, Jakarta, Indonesia, Partial Management Support Plan, College of Education - Administration (J. J. Buffer), 1 May 1988 through 31 December 1990. (Project 767036 - Continuation)

$13,024.00 - Ford Foundation, New York, New York, C. S. Tewari Fellowship, Department of Natural Resources - OARDC and School of Natural Resources (C. F. Cole), 1 January 1989 through 1 January 1990. (Project 767310 - New)

$10,123.00 - Miami University, Oxford, Ohio, Insect Cold-Hardiness and Diapause: Regulatory Relationships, Department of Entomology (D. L. Denlinger), 1 February 1989 through 31 January 1990. (Project 767309 - New)

$8,000.00 - Edison State Community College, Piqua, Ohio, Triton College, River Grove, Illinois, City Colleges of Chicago, Chicago, Illinois, and Daytona Beach Community College District, Daytona Beach, Florida, National Alliance of Community and Technical Colleges, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766839 - Continuation)

$8,000.00 - The Ruffed Grouse Society, Coraopolis, Pennsylvania, Ohio Coverts Project, Cooperative Extension Field Operations (E. L. Smith), 1 January 1989 through 31 December 1989. (Project 767321 - New)


$2,000.00 - Benua Foundation, Inc., Columbus, Ohio, School Attendance Project, College of Education - Administration (T. M. Stephens), 1 December 1987 through 30 April 1989. (Project 766630 - Continuation)

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)
Department of Astronomy (B. M. Peterson), 1 February 1989 through 31 January 1990. (Project 767309 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $ 999,369.00

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development

$52,000.00 - General Electric, Cincinnati OH, for “Air Portugal Airlines Test Cell,” under the direction of the department of Aeronautical and Astronautical Engineering for the period February 1, 1989 through April 30, 1989. (312497)

$37,011.00 - from 37 sponsors of 51 development projects through two research areas/departments of the College of Engineering.

$27,018.00 - EPRI, Palo Alto, CA, for “HVDC Converter Station Electromagnetic Noise Study,” under the direction of the department of Electrical Engineering for the period February 4, 1986 through September 30, 1989. (529714, Ext. 2)

$15,000.00 - from various industry in support of Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529206)

$12,500.00 - General Electric, Schenectady, NY, for “Ultrahigh Temperature Composite Materials,” under the direction of the department of Materials Science and Engineering for the period August 1, 1986 through December 31, 1988. (312886, Ext. 4)

$ 7,000.00 - various industry for membership in the Gear Research Laboratory under the direction of the Department of Mechanical Engineering. (529735)

$ 2,000.00 - various industry for affiliate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 152,529.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds

The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund

The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts from the estates of Lewis Edward Miller (B.S.Bus.Adm. '23) and Dorothy Hermann Miller (Certificate, Pharmaceutical Chemist, '21).
Establishment of Named Funds (contd)

The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund (contd)

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income is to be used to support research and facilities in the College of Pharmacy as approved by the Dean of the College of Pharmacy. In the event that it becomes necessary to invade the principal to meet the above objective, the Dean may do so at his discretion, but only to support capital equipment acquisition and/or building renovations not otherwise supported.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for pharmacy education.

Texnikoi-Arthur C. Avril Endowment Fund

The Texnikoi-Arthur C. Avril Endowment Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with proceeds from the sale of an automobile given to the University by Mary J. and Arthur C. Avril (Bachelor of Engineering in Mining ‘25) of Cincinnati, Ohio.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The Texnikoi-Arthur C. Avril Endowment Fund recognizes Arthur C. Avril for his role as a founding member and first president of Texnikoi, a student Engineering honorary. The annual income is to be distributed in ways which will provide future growth for the fund and for Texnikoi while recognizing excellence among current members. Ten percent of the annual earnings shall be reinvested into principal. At least one-half of the remaining annual earnings shall be used to fund scholarships for members of the Texnikoi chapter at The Ohio State University. Selection of scholarship recipients shall be based on strength of their academic performance and the quality and extent of their involvement in extracurricular activities. Recipients will be named annually, but prior-year recipients may be eligible to compete for renewed awards. The remaining income will be used for communications with Texnikoi members and for the expansion of the fraternity. The Dean of the College of Engineering, in consultation with the Chapter Advisor of Texnikoi and the Committee on Student Financial Aid, will be responsible for scholarship selection and authorizing all expenditures from the income.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

Robert M. Zollinger Lectureship Fund

The Robert M. Zollinger Lectureship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members of the Robert M. Zollinger Ohio State University Surgical Society and colleagues and friends of Robert M. Zollinger (B.S. '25, M.D. '27), of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support a distinguished lectureship within the Department of Surgery as approved by the department chairperson in consultation with the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Donald H. Russ Scholarship Fund

The Donald H. Russ Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Donald H. Russ (B.S.Agr. '39), of Carroll County, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for students from Carroll County, Ohio, who are full-time students in the College of Agriculture at The Ohio State University and have demonstrated financial need. These scholarships are renewable to the same students for a period not to exceed four years, so long as they are in good academic standing and continue to demonstrate need. Selections will be made by the University Committee on Student Financial Aid and in consultation with the Dean of the College of Agriculture.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
Establishment of Named Funds (contd)

Wells Nursing Scholarship Fund

The Wells Nursing Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Estella M. Wells of Zanesville, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to encourage individuals to pursue a career in nursing. The fund may be used for, but is not limited to, nursing scholarships and recruitment, as decided by the Dean of the College of Nursing, with advice from the director of the Office of Student Affairs and the Associate Dean of the College of Nursing, in coordination with the University Committee on Student Financial Aid. Scholarship awards may be made at the graduate or the undergraduate level. Preference at either level, however, shall be given to minority students.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund

The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from friends, colleagues, relatives and former students of Devon W. Meek, Professor Emeritus of The Ohio State University Department of Chemistry.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund a lectureship for a distinguished researcher from the industrial community who will present at least one chemistry department seminar. Undergraduate poster presentations will be held in conjunction with the lectureship. They will be prepared by undergraduate chemistry majors and reviewed by a panel of faculty members. These poster presentations shall be supported by the Devon W. Meek Fund as well. These events will be held on an annual basis and will recognize Dr. Meek's efforts in developing closer industrial/academic relations as well as his role in encouraging undergraduate students to pursue careers in chemistry.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean,
Establishment of Named Funds (contd)

The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund (contd)

department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Joseph P. Kinneary Scholarship Fund

The Joseph P. Kinneary Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from former judicial clerks of Judge Joseph P. Kinneary of Columbus, Ohio.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance to one or more students with excellent academic achievement and demonstrated financial need who are enrolled in the College of Law. Recipients should demonstrate an interest in public service with preference being given to students who are seeking a federal clerkship. Awards shall be made by the Dean of the College of Law in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official who is then directly responsible for legal education in order to carry out the desire of the donors.

J. Walter Severinghaus Scholarship Fund

The J. Walter Severinghaus Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Mrs. J. Walter Severinghaus of Scarsdale, New York, and partners of the firm, Skidmore, Owings & Merrill of Chicago, New York, and San Francisco.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the annual J. Walter Severinghaus Scholarship. The fund, in honor of the late J. Walter Severinghaus (B.Arch. ’31) will provide fellowships to students who are pursuing the Master of Architecture degree at The Ohio State University after earning their undergraduate degree in the liberal arts. The fellowships are intended to encourage graduate students to consider human values in their architectural studies and in their professional careers. By so doing, they will be honoring the memory and achievements of J. Walter Severinghaus who earned both a liberal arts degree and an architecture degree. In 1970, after almost 40 years with Skidmore, Owings, & Merrill Architects, he was awarded the Doctorate of Humane Letters degree by The Ohio State University for his innovations in humanistic architecture, his designs,
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

J. Walter Severinghaus Scholarship Fund (contd)

and his client relationships. The fellowships are also intended to help attract and support students who otherwise could not afford the cost of graduate education. Selection will be made by the Department of Architecture Scholarship Committee in coordination with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Change in Name and Description of Named Fund

The Martha Miller Lotman Scholarship Fund

The Martha Miller Lotman Memorial Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from family members, in honor of Martha Miller Lotman, formerly of Marion, Ohio. The name and description were changed April 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Fifteen percent (15%) of the annual income distributed shall be added to the fund's principal. The remaining eighty-five percent (85%) shall be used for one or more scholarships to deserving students who are qualified to enroll at The Ohio State University, Marion Campus. Preference for scholarship awards shall be given to those students majoring in journalism, communication or English. The selection of the recipient(s) will be made by a committee consisting of a designated member of the family and a representative of the Dean of The Ohio State University at Marion, in consultation with the University Committee on Student Financial Aid. The University shall make all reasonable attempts to contact a family member to have a representative present during the selection process. Unused income in any given year shall be added to the principal of the fund.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official of the University who is then responsible for student scholarship awards to students of the Marion, Ohio, area in order to carry out the desire of the donors.

Change in Description of Named Fund

Metropolitan Washington, D.C., Alumni Scholarship Fund

The Metropolitan Washington, D. C., Alumni Scholarship Fund was established April 1, 1983, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University
April 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

Metropolitan Washington, D.C., Alumni Scholarship Fund

Development Fund from alumni and friends of the Metropolitan Washington, D.C., area. The description was being changed April 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Until the fund reaches $25,000 all annual income is to be returned to principal. Thereafter, the annual income shall be used to provide one or more scholarships for undergraduate students from the Metropolitan Washington, D.C., area enrolled in The Ohio State University, with preference given to students who are in the upper twenty-five percentile of a national test, such as the ACT, SAT, etc. The selection of the recipient is to be made in accordance with the recommendation of a selection committee from The Ohio State University Alumni Club of Washington, D.C. in conjunction with the University Committee on Student Financial Aid. The unused income in any given year is to be returned to principal.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Funds

Schoenbaum Scholars Program Fund

The Schoenbaum Scholars Program Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Education and the College of Business.

Income provided by the Foundation shall be used for scholarships for students entering or intending to enter, or enrolled in the College of Education or the College of Business with the following criteria:

1. Selection to begin with freshmen in the fall of 1989.
2. The scholarship will provide tuition, room, and books.
3. Each year following 1989, additional students will be selected until scholars at the freshmen, sophomore, junior, and senior levels are supported.
4. Recipients will be selected through a formula based on test scores and/or high school rank.
5. Students should show a demonstrated financial need.
6. Selected students entering as freshmen will be eligible for renewal of the scholarships provided they maintain a grade point average of 3.0 or with appeal to the financial aid committee.
Approval of Description and Establishment of Funds (contd)

Schoenbaum Scholars Program Fund (contd)

7. Selected students should show a potential for success as measured by academic record, extra-curricular activities, work experience and other experiences.

8. Selection of the recipients will be made by the University Committee on Student Financial Aid and, when appropriate, upon recommendation of the Deans of the Colleges of Business and Education.

REQUEST FOR CONSTRUCTION BIDS

OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE
SCOTT HALL REMODELING - PHASE I

Resolution No. 89-92

Synopsis: The Fiscal Affairs Committee recommends authorization to request construction bids for these projects.

WHEREAS the exposed concrete in the exterior walls of Ohio Stadium is in need of cleaning, repair, and rehabilitation, and $1,393,765.00 will be made available from the Department of Athletics for this Project, with the estimated construction cost being $1,223,000.00; and

WHEREAS the Department of Geology and Mineralogy and the Byrd Polar Research Center need to be relocated for the planned renovation of Mendenhall Laboratory, and Scott Hall needs to be remodeled to provide temporary accommodations for these academic units, and $460,000.00 will be made available from University funds for this first phase of the Scott Hall remodeling project, with the estimated construction cost being $300,000.00; and

WHEREAS the University Architect's Office has provided architectural and engineering design services for these projects, and the plans and specifications have been completed; and

WHEREAS at the request of the Vice President for Business and Administration, the President recommends that the Board of Trustees authorize the request for construction bids for these projects:

NOW THEREFORE

BE IT RESOLVED, That the President and/or the Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at a later meeting.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXIV for maps of Scott Hall Remodeling - Phase I and Ohio Stadium - Rehabilitation of the Exterior Concrete, page 1029.)

--0--
April 7, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 89-93

Synopsis: The Fiscal Affairs Committee recommends the acceptance of the report of the award of contracts for the projects listed below to the lowest responsive and responsible bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to award contracts for the following projects:

GOLF COURSE IRRIGATION SYSTEM

Description: This project provides for the installation of a state-of-the-art computer linked weather station to monitor and control the duration and watering sequences, modernization of existing pump controls, repairs to existing cast iron mains and replacement of all galvanized pipe with PVC lines. Construction is scheduled to begin no later than March 1, 1989, and be completed by August 31, 1989.

General Contract

Date Received: December 21, 1988

No. of Bids: 3

Low Bid: $825,000.00

High Bid: $891,000.00

Estimate of Cost: $828,994.00

Awarded to: Hilltop Glen Golf, Canton, MI

Total All Contracts: $825,000.00

Total Contingency Allowance: $61,257.00 (which is 7.4% of construction cost)

Total Project Cost: $887,750.00

Funding: University Funds, Athletic Department

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS

Description: This project provides for the renovation of approximately 3,900 square feet in the basement of Rightmire Hall for the installation of 14 growth chambers, a plant tissue culture room, a new emergency generator and new electrical distribution center. Construction is scheduled to begin January 1989 and be completed June 1989.
April 7, 1989 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (contd)**

**General Contract**

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>November 17, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>6</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$65,000.00</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$93,500.00</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$90,000.00</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>Gutknecht Construction, Columbus, OH</td>
</tr>
</tbody>
</table>

**Plumbing Contract**

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>November 17, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>4</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$36,220 (accepted substitutions to total $37,590)</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$51,370.00</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>C. W. Construction, Groveport, OH</td>
</tr>
</tbody>
</table>

**HVAC Contract**

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>November 17, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>3</td>
</tr>
<tr>
<td>Low Bid:</td>
<td>$72,680.00*</td>
</tr>
<tr>
<td>High Bid:</td>
<td>$103,400.00*</td>
</tr>
<tr>
<td>Estimate of Cost:</td>
<td>$75,000.00*</td>
</tr>
<tr>
<td>Awarded to:</td>
<td>Project Systems Mechanical, Columbus, OH</td>
</tr>
</tbody>
</table>

**Electric Contract**

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>August 16, 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Bids:</td>
<td>4</td>
</tr>
</tbody>
</table>

* Recommended alternates reflected in these figures.
April 7, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (contd)

Electric Contract (contd)

Low Bid: $148,620.00*
High Bid: $213,500.00*
Estimate of Cost: $160,050.00*
Awarded to: Jess Howard Electric, Blacklick, OH

Total All Contracts: $323,890.00*
Total Contingency Allowance: $34,010.00 (which is 10.5% of construction costs)

Equipment: $200,000.00

Total Project Cost: $660,980.00*
Funding: University Funds

* Recommended alternates reflected in these figures.

UNIVERSITY AIRPORT RENOVATIONS 1988/1989

Description: This project provides for updating taxiway guidance and hold signs, repairing Runway 9L-27-R and overlaying same with asphalt and constructing an asphalt apron between hangars 4 and 9 for aircraft parking and taxiing. Construction is scheduled to begin March 1989 and to be completed by June 1989.

General Contract

Date Received: December 1, 1988
No. of Bids: 8
Low Bid: $259,395.00*
High Bid: $335,326.00*
Estimate of Cost: $342,378.00*
Awarded to: Columbus Asphalt Paving Co., Columbus, OH

* Recommended alternates reflected in these figures.
April 7, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

UNIVERSITY AIRPORT RENOVATIONS 1988/1989 (contd)

Electric Contract

Date Received: December 1, 1988
No. of Bids: 2
Low Bid: $49,750.00*
High Bid: $60,585.00*
Estimate of Cost: $389,608.00*
Awarded to: Scioto Electrical Contractors, Lancaster, OH

Total All Contracts: $309,145.00*
Total Contingency Allowance: $42,038.00 (which is 13.6% of construction costs)
Total Project Cost: $391,183.00*
Funding: FAA Grant and University Funds

*Recommended alternates included in these figures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or the Vice President for Business and Administration to sign the plans and specifications, and in accordance with established University procedures, to request construction bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects:

PRESSEY HALL REMODELING - PHASE I

Description: This project provides for the remodeling of approximately 35,050 square feet of selected spaces in Pressey hall to provide administrative support space, faculty and staff offices, teaching and research laboratories and a Speech, Language and Hearing Clinic for the Department of Communication, College of Social and Behavioral Sciences as a part of the West Campus Relocation Plan. This is a Minority Set Aside project. Construction is scheduled to begin January 1989 and to be completed by September 1989.

General Contract

Date Received: October 6, 1988
No. of Bids: 3

906
April 7, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

PRESSEY HALL REMODELING - PHASE I (contd)

General Contract (contd)

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>High Bid</th>
<th>Estimate of Cost</th>
<th>Awarded to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Bid</td>
<td>$ 567,680.00*+</td>
<td>$ 685,698.00*</td>
<td>$ 540,620.00*</td>
<td>CWC/ABC, A Joint Venture, Groveport, OH</td>
</tr>
</tbody>
</table>

Plumbing Contract

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>High Bid</th>
<th>Estimate of Cost</th>
<th>Awarded to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>October 6, 1988</td>
<td>3</td>
<td>$ 34,875.00+</td>
<td>Edmonds Mechanical Contractors, Dayton, OH</td>
</tr>
<tr>
<td>Low Bid</td>
<td>$ 34,875.00+</td>
<td>$ 49,023.00</td>
<td>$ 23,100.00</td>
<td>Edmonds Mechanical Contractors, Dayton, OH</td>
</tr>
</tbody>
</table>

HVAC Contract

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>High Bid</th>
<th>Estimate of Cost</th>
<th>Awarded to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>October 6, 1988</td>
<td>4</td>
<td>$ 204,198.00+</td>
<td>Edmonds Mechanical Contractors, Dayton, OH</td>
</tr>
<tr>
<td>Low Bid</td>
<td>$ 204,198.00+</td>
<td>$ 277,300.00</td>
<td>$ 185,640.00</td>
<td>Edmonds Mechanical Contractors, Dayton, OH</td>
</tr>
</tbody>
</table>

Electric Contract

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>High Bid</th>
<th>Estimate of Cost</th>
<th>Awarded to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>October 6, 1988</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of Bids</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Recommended alternates reflected in these figures.
+All contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Ohio Revised Code.
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

PRESSEY HALL REMODELING - PHASE I (contd)

Electric Contract (contd)

Low Bid: $ 198,720.00*+
High Bid: $ 302,625.00*
Estimate of Cost: $ 188,380.00*
Awarded to: Smith & Bruce Inc., Columbus, OH
Total All Contracts: $1,005,473.00*
Total Contingency Allowance: $ 50,873.00 (which is 5% of construction costs)
Total Project Cost: $1,230,212.00*
Funding: H.B. 870, H.B. 810 and University Funds

*Northwest Utilities Phase I
Storm and Sanitary Sewers

Description: This project provides for the installation of a new storm and sanitary sewer line to
replace the existing antiquated septic system serving the Athletic Maintenance Building, Poultry
Science complex, Dakah Hall, and Brooding and Breeding Houses. Construction is scheduled to
begin in March 1989, and be completed in September 1989.

General Contract

Date Received: January 31, 1989
No. of Bids: 11
Low Bid: $712,730.00
High Bid: $953,953.00
Estimate of Cost: $989,704.00
Awarded to: The Righter Company, Columbus, OH
Total All Contracts: $712,730.00
Total Contingency Allowance: $ 35,636.99 (which is 5% of construction cost)
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

NORTHWEST UTILITIES PHASE I
STORM AND SANITARY SEWERS (contd)

Total Project Cost: $829,425.00
Funding: University Bonds and Senate Bill 386 Utilities and Renovation

OARDC SUPPORT FACILITIES - BARN REPLACEMENT
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

Description: This project involves the replacement of a two-story bank barn, attached sheds, and contents lost in a barn fire at OARDC property in Wooster, Ohio, in November 1985. Construction is scheduled to begin in April 1989, and be completed in August 1989.

General Contract

Date Received: March 2, 1989
No. of Bids: 4
Low Bid: $117,500.00
High Bid: $140,238.00
Estimate of Cost: $127,550.00
Awarded to: Finnegan Construction, Shelby, OH

Electric Contract

Date Received: March 2, 1989
No. of Bids: 7
Low Bid: $14,546.00
High Bid: $25,000.00
Estimate of Cost: $19,020.00
Awarded to: Wooster Electric, Wooster, OH

Total All Contracts: $132,046.00
Total Contingency Allowance: $10,569.81 (which is 8% of construction costs)
Total Project Cost: $158,250.00
Funding: University Funds
April 7, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION 1

Description: New water lines will be installed to obtain increased pressure and fire protection to the Waterman Farm Complex and Bee Laboratory. Construction is scheduled to begin in March 1989, and be completed in April 1989.

General Contract

Date Received: January 19, 1989
No. of Bids: 15
Low Bid: $62,179.29
High Bid: $107,651.00
Estimate of Cost: $94,090.50
Awarded to: N. M. Savko, Columbus, OH

Total All Contracts: $62,179.29
Total Contingency Allowance: $3,109.18 (which is 5% of construction costs)
Total Project Cost: $69,900.00
Funding: University Bonds

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Berry, seconded by Mr. Tealord, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.


--0--
April 7, 1989 meeting, Board of Trustees

Thereupon the Board adjourned to meet Thursday, May 4, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman
Page 912 is blank
APPENDIX XXVIII

PERSPECTIVE ON LAND-GRANT UNIVERSITIES

(See page 822)
As we look to the future of The Ohio State University and of higher education in Ohio and across the nation, it is important to do so within the context of Ohio State's history, which largely parallels the history of public higher education in the United States. Ours is a land-grant university with the characteristics and responsibilities that are the essence of our uniquely American system of higher education.

The Ohio State University was founded shortly after the enactment of the Morrill Act of 1862, which by any definition was revolutionary. Nevertheless, most of its fundamentals predate it by at least 75 years and had their origins primarily in the midwest.

The Northwest Ordinance, enacted in 1787, established the process of governance over most of the midwest and contained the first official mention of public education. The Ordinance was the first document to assign -- at least partially -- to government the responsibility of providing an educational opportunity for its citizens. This idea undoubtedly existed before the Northwest Ordinance, but it was first codified there. Spelling out this obligation and setting aside land to finance public education were radical notions, yet they provide the foundation of what we see today.

The Northwest Ordinance helped define the uniquely American approach to education that "schools and the means of education shall forever be encouraged." In other words, the Northwest Ordinance implied that education was a public good. While the benefits of education to the individual had long been recognized, the Ordinance acknowledged that education had a public value, that educated citizens were a benefit to society and, consequently, that it was appropriate for the populace as a whole to finance part of that education. This idea is well-accepted today, but 200 years ago, in a world dominated by colonialism, feudalism, and illiteracy, where the ideas of democracy were new and untried, the concept of an education for and by all of the public was radical indeed.

Public education came to be recognized as a public good not only for its economic benefits, but also because general education was necessary for democracy to survive and prosper. Thomas Jefferson understood that the public must be educated in order to be informed on the issues, ideas, and public processes in society. It was in this context that Jefferson founded the University of Virginia. While today, that university is significantly different from most land-grant universities, it nonetheless rests on the foundation of public education as a necessary component of democracy.

As the country developed, the Northwest Ordinance gradually was replaced in the midwest by the U.S. Constitution, which did
not specifically mention or assign governmental responsibility for education. These ideas of public education began to flounder during the early part of the 19th century.

The Morrill Act re-established the early ideas of public education and provided a mechanism that led to the founding of our great land-grant universities. But it was not without controversy. Introduced in the early 1850's, it barely passed in Congress in 1858, and was vetoed by President Buchanan. The act finally was signed into law in 1862 by President Lincoln. The act set aside federal lands to be used to provide the basic funding of universities with the purpose of teaching agricultural and mechanical arts, and promoting "the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Out of these roots came a model of a university that changed the face of primary, secondary, and higher education -- a system of education which transformed America. The characteristics of this educational system remain fundamental to Ohio State's mission today and, I might add, to the mission of many other colleges and universities which do not have a land-grant history.

One of the tenets of the land-grant system was that government was responsible for providing an educational opportunity to all qualified individuals -- independent of their social standing and financial needs. This land-grant idea today has been extended not only to all public institutions, but to private colleges and universities as well. Today, an opportunity for all who are qualified is a fundamental tenet practiced in varying degrees by every institution of higher education in the United States.

The key to implementing this principle is three types of government funding which take the metaphorical form of a three-legged stool: one leg being tuition, the second student financial aid, and the third opportunities to earn money for expenses and tuition through work at the university. The three-legged stool is the technique whereby government provides educational opportunities for all citizens who seek educational advancement. Low to moderate tuition, adequate financial aid, and sufficient work opportunities are fundamental constructs of higher education in America today. Some institutions -- mostly private -- emphasize financial aid more than lower tuition. Others -- mostly public -- emphasize low tuition. But all emphasize affordability, at least in their public relations. And virtually all governments -- federal, state and local -- participate in the idea of financing education for the masses.

A second concept introduced through the land-grant act is local control of institutions. In most nations today, the great universities are national universities controlled, governed, and financed at the national level and expected to direct their
attention first and foremost to national issues. In the United States, however, the land-grant movement established the concept of local control.

While there are American institutions considered to be national and international universities -- some public, some private -- it continues to be clear, particularly in the public sector, that the first obligation of the institution is to serve the city, county, state, or regional community, not the federal community. When service extends beyond the local community, it clearly is a byproduct of meeting local responsibilities or contributing directly or indirectly to the local welfare. In this context, Ohio State is, indeed, a national/international university, but our mission and responsibility is to the state. We are national/international only insofar as that scope helps us meet our local responsibilities. However, as modern communications and transportation shrink the world, Ohio State continues to extend its worldwide influence and participation.

The land-grant universities also introduced a major change in our definitions of higher education. The earlier, largely European-modeled colleges focused on liberal education with little, if any, professional or vocational education as part of the curriculum. Apprenticeships served the vocations and professions and in many cases did not require a classic liberal education. Land-grant universities were established with the mission to teach the professions of agricultural and mechanical arts. However, in the dialogue over the Morrill Act, a new idea was born that integrated liberal education with the professions in one curriculum graduating a vocationally competent and educated individual.

The Morrill Act called for a college where "the leading object shall be, without excluding other scientific and classical studies, to teach such branches of learning as are related to agriculture and the mechanic arts . . . in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." What great debates there must have been among 19th century land-grant faculties in interpreting this mandate! With agricultural and mechanical arts, should we also include Greek or Latin? Should we include Shakespeare and Chaucer, or read Adam Smith?

Out of that debate came an institution, a curriculum, and an idea which we take for granted today: that our obligation is to integrate professional and liberal education into a coherent whole. This integration creates individuals who are educated people, creative and adaptable to the future, who have learned how to learn, and who know and understand the basic tenets of their particular profession whether it is agriculture, medicine, law, engineering, dance, accounting, pharmacy, or music. While in most of the world, professional schools were -- and are -- separate, our uniquely American institutions have a full range of liberal and professional programs as part of the curriculum that we have come to expect.
Twenty-five years ago, higher education was criticized for not providing enough professional education. We were accused of having irrelevant courses in the curriculum, of not preparing people for a job or career. Today, I believe correctly, the criticism has swung the other way. We have become too vocational and have short-changed our mission of liberal education. This balancing of liberal and professional education has been going on for more than 100 years and is the source of most of the tensions in our modern universities. We constantly are faced with decisions that trade off liberal and professional education. But as we see time and time again, these tensions are also the source of our greatest strength, namely, our reliance upon each other in academe. It is rare for a professional school to be truly outstanding without other strong professional schools surrounding it or without a strong liberal arts program in existence side by side.

Furthermore, with the speed of technological change today, incorporating liberal and professional education in one whole is even more important. Biotechnology combines medicine, agriculture, and engineering with the basic sciences of chemistry, botany, and zoology. Biotechnology cannot exist without the land-grant idea of combining professional and liberal education. Materials research developing at Ohio State relies on this interdisciplinary approach, as does the further development of computers.

An excellent example of the results of combining disciplines -- professional and liberal -- is the Magnetic Resonance Imaging machines now found in most research hospitals. The MRI machines are the direct result of combining quantum mechanics and computers. While these fields developed along separate tracks for many years, they finally came together in the 1970's in response to the imperatives of medical research. Bringing together such disparate advances is an important characteristic of all universities today, but it was the land-grant idea that established the principle of combining professional and liberal education.

As the land-grant system evolved, it was recognized that the responsibility for basic research should be assigned primarily to universities, particularly in a free enterprise system. Basic research is a highly risky activity that will seldom be supported within the private sector. The great bulk of basic research today is conducted in universities, because an environment that does not require immediate results and that encourages interdisciplinary collaborations fosters basic research. Also, universities ensure that young minds surround the research enterprise and provide the continuous stimulation of new ideas, new thoughts, and new approaches to existing techniques. While applied research continues outside the university, basic research has become part of the fundamental mission not only of land-grant universities, but of all institutions of higher education.
In the 1930's, a debate raged at Ohio State and all over the country regarding agricultural research. As a cost-saving measure, land-grant universities, pressed for funds, debated whether or not to continue basic research in agriculture. After all, it did appear that the agricultural advances of the early 20th century were so great that little was left to do! Yet in the wisdom of society, agricultural research was continued. Today, fifty years later, yields in most cases are more than five times what they were in the 1930's, and advances continue to be made. The risks were obvious, the benefits unclear, and yet the research continued in universities to the advantage of our society today.

It also became clear that, as university teaching enhances research, so too does research enhance teaching both in direct and indirect, synergistic ways. It maintains a faculty member's interest. It stimulates the student's ability to learn, gather, and apply new information and test new ideas. Engaging in research keeps one more fully up-to-date in a field. And, as we see today with a few exceptions, the great research universities of America also are the great teaching universities, and vice-versa. Research and teaching go hand in hand and cannot be separated from each other. Despite "profscam" and examples of poor teaching, poor research, or both, no one suggests a separation of teaching and research. It is the degree of emphasis that is criticized.

A further outgrowth of the land-grant act is the radical concept of service as it relates to teaching and research. Land-grant universities were charged with moving their research results to the practical arena so that they could be rapidly and fully exploited by the community at large. The earliest manifestations of this were our agricultural research centers and cooperative extension programs. Through these programs we could take the newly-developed technology in agriculture and food sciences to the local grower rapidly and in a manner that would produce an immediate impact on productivity. But, the idea of service involved more than simply technology transfer. It included a commitment to the social benefits that could accrue to society if the universities became a part of society instead of isolating themselves as they had in the past.

Cooperative extension took on the additional task of educating the rural population on the problem solving required in everyday life. Home economics extension taught rural homemakers nutrition and child care, giving them the ability to prevent disease and opening opportunities for education for the next generation. Congress was lobbied for a rural electrification system. Communities were challenged to take advantage of educational opportunities to break the cycle of poverty. In Latvian communities in northwestern Ohio, Serbo-Croatian communities in southeastern Ohio, and Irish communities in Cleveland, it was the land-grant universities that provided services to these -- and all -- communities. Now, of course,
every college and university in some way engages in service activities to the betterment of society.

These several principles of education, financing, and governance that have evolved from the Morrill Act, now are part of the fabric of the American system of public education. This system continues to insist that education be made available to all qualified individuals independent of their social and financial need, and that government be a significant partner with financial support to provide moderate tuition, adequate student financial aid, and work opportunities. It is a system characterized by diversity and local control that provides all students in America the opportunity to pursue their own individual ambitions.

There are large and small universities; undergraduate and graduate schools; schools with global perspectives and those which are more narrowly focused. With local control, American higher education has developed into a system where students can choose the institution that best suits their needs. Great diversity in higher education has resulted from the Morrill Act.

From the public point of view, virtually every state in the nation has developed a system of higher education characterized by three categories of institutions. Regional differences exist but, by and large, we are a nation of community colleges or two-year schools, four-year institutions, and comprehensive institutions. The community college or two-year school is primarily local in nature, serving an individual city or county with the students not leaving home. Its educational mission is to provide technical or vocational training and/or a liberal arts program transferrable to a four-year baccalaureate degree-granting institution. It generally is the least expensive of all institutions from the student point of view and is specifically designed to respond to and satisfy the immediate and local post-secondary needs of its home city or county.

The four-year institution takes a state-wide view and has as its primary objective providing a liberal arts baccalaureate degree. It includes a smattering of professional schools and very little graduate education. The comprehensive institution offers a full undergraduate curriculum with a complete range of liberal arts programs as well as opportunities for professional education. It also has a full range of post-baccalaureate programs -- both professional and in the basic sciences and humanities. These institutions generally cater to the most academically qualified undergraduates, but they also are receiving institutions for transfer students from community colleges and four-year institutions.

Virtually all states can separate their institutions into these three categories. There are as many governing structures for these three types of post-secondary education as there are states, from single governing authorities for all institutions to separate authorities for each institution. In all cases,
however, each state has, to varying degrees, adopted for all its institutions the fundamental ideas of the land-grant institution -- financial availability, local control, mixing professional and liberal education, research, and service. Today, no single institution is able to satisfy all the needs of the state as perhaps was contemplated in the past. Today, essentially all states have established a system of diverse institutions that combine, satisfy, and embrace the land-grant ideas and ideals. Now, the land-grant fundamentals are broader and deeper than ever could have been contemplated by Congressman Morrill.

Higher education in the State of Ohio has many of the characteristics of the three types of institutions mentioned above. However, there are some unique features that bear reflection as we look to the future. Many of the larger Ohio communities have a community college which incorporates technical as well as liberal education into one institution. There are, however, several technical schools that focus solely on vocational or technical training, usually accompanied by a separate organization whose primary function is the two-year liberal arts program. These separate organizations typically are operated by a four-year or comprehensive institution in the state, which is a somewhat unusual configuration when compared to other states.

The distinction between the four-year institutions and the comprehensive institution are less clear-cut than they are in many states. The four-year institutions in Ohio have a mixture of programs from some very fine graduate and research programs to professional programs that rival any in the country, such as the engineering and medical schools at the University of Cincinnati and the urban planning program and law school at Cleveland State University. Both institutions are primarily four-year, undergraduate institutions, but they include graduate and professional education which would more generally be limited to the comprehensive flagship institutions of a state.

This blurring of categories is at least partially the result of the presence in Ohio of only one comprehensive university. Most states have at least two, and in many cases several, comprehensive institutions. A typical midwestern model is at least two comprehensive universities: one the original state university, incorporating the health sciences and a strong component in the basic sciences, and the other the land-grant university, including agriculture and engineering and very large professional schools.

The absence of other comprehensive universities in the state explains why The Ohio State University is so large. It recently was noted in USA Today that we are the largest single campus in the United States in the number of students in Columbus. We are not the largest because our individual departments are especially large. By state university standards, these departments are fairly average in size. The reason Ohio State is large is that everything exists on one campus. In other states, functions are
separated into two or more institutions: Indiana and Purdue; Michigan, Michigan State, and Wayne State; Iowa and Iowa State; Georgia and Georgia Tech; Texas and Texas A&M -- there are many such examples. We are large because by policy, this state has concentrated its comprehensive activity in one location, The Ohio State University.

Another important characteristic of Ohio is that in providing financial access, Ohio has consistently adopted a policy of being a high-tuition public university state. Both now and historically, Ohio ranks among the highest ten states in tuition. Correspondingly, Ohio ranks among the bottom ten states in the amount of state support for higher education. Many reasons exist for such a state policy, but it is worth noting that Ohio also has ranked in the lower ten states in the percent of high school students going on to college. Tuition levels are, of course, the subject of the General Assembly debate that engages us today. The outcome of this debate is, I believe, extraordinarily important as we look at charting a course for The Ohio State University in the years to come.

While there is a great deal more to discuss, this brief historical view of the University and its distinguishing characteristics should be helpful in the development of institutional policies as we move into the decade of the nineties and prepare for the 21st century.
APPENDIX XXVIII

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
March 17, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees April 7, 1989

(See page 827)
Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>06-30-88</th>
<th>Percent of Equity and Fixed Income</th>
<th>03-17-99</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$38,004,379</td>
<td>18.55%</td>
<td>$38,765,606</td>
<td>17.11%</td>
</tr>
<tr>
<td>Nicholas-Appleigate</td>
<td>10,454,591</td>
<td>5.10</td>
<td>10,701,722</td>
<td>4.72</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,428,707</td>
<td>16.81</td>
<td>36,651,511</td>
<td>16.17</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>17,462,592</td>
<td>8.53</td>
<td>18,695,032</td>
<td>8.25</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>33,282,386</td>
<td>16.25</td>
<td>52,221,925</td>
<td>23.05</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$133,632,655</td>
<td>65.24%</td>
<td>$157,037,796</td>
<td>69.30%</td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatmen’s Trust (1)</td>
<td>$21,547,467</td>
<td>10.52%</td>
<td>$21,303,410</td>
<td>9.40%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>921,925</td>
<td>0.45</td>
<td>905,504</td>
<td>0.40</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>9,983,561</td>
<td>4.87</td>
<td>9,592,937</td>
<td>4.23</td>
</tr>
<tr>
<td>STM Fixed Income</td>
<td>22,300,069</td>
<td>10.89</td>
<td>21,751,369</td>
<td>9.60</td>
</tr>
<tr>
<td>OSU - GNMA</td>
<td>9,954,372</td>
<td>4.86</td>
<td>9,516,802</td>
<td>4.20</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,502,840</td>
<td>3.17</td>
<td>6,503,698</td>
<td>2.87</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$71,210,234</td>
<td>34.76%</td>
<td>$69,573,720</td>
<td>30.70%</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td>$204,842,689</td>
<td>100.00%</td>
<td>$226,611,516</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$43,089,186</td>
<td>(2)</td>
<td>$36,571,244</td>
<td>(2)</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$247,932,075</td>
<td></td>
<td>$263,182,760</td>
<td></td>
</tr>
</tbody>
</table>

1) Formerly Centerre Trust.
2) Real Estate reported at most recent appraised value.
Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value March '88 to March '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.56% (1)</td>
<td>0.24%</td>
<td>3.80%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.85 (2)</td>
<td>6.95</td>
<td>8.80</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>4.07 (3)</td>
<td>6.08</td>
<td>10.15</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>3.08</td>
<td>9.28</td>
<td>12.36</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>4.60 (4)</td>
<td>8.27</td>
<td>12.87</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.82</td>
<td>7.96</td>
<td>11.78</td>
</tr>
<tr>
<td>Real Estate:</td>
<td>4.37%</td>
<td>-0% (11)</td>
<td>4.37%</td>
</tr>
</tbody>
</table>

Fixed Income:

| Bonds (Boatmen's Trust, formerly Centerre Trust) | 8.40% (5) | (7.18)% | 1.22% |
| Bonds (Cambridge) | 8.01 (6) | (4.37)% | 3.64 |
| Bonds (Duff & Phelps) | 8.82 (7) | (5.54)% | 3.28 |
| Bonds (STW Fixed Income) | 9.23 (8) | (4.87)% | 4.36 |
| Bonds (OSU-GNMA) | 9.91 (9) | (5.80)% | 4.13 |
| Bonds (OSU Managed) | 7.71 (10) | (0.21)% | 7.50 |
| Merrill Lynch Corporate/ Government Master | 8.93 | (5.39)% | 3.54 |

(1) 20.0% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.6%.
(2) 1.4% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.7%.
(3) 43.4% of Siebel portfolio is made up of cash and cash equivalents which earn 9.6%.
(4) 50.5% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.7%.
(5) 11.2% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.2%.
(6) 100.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.7%.
(7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.7%.
(8) 0.2% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.7%.
(9) 0.3% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.7%.
(10) 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.7%.
(11) Not able to compare 12 months.
(12) Endowment Fund Income through March 31, 1989, totaled approximately $10,636,000.
(13) Income from University Cash Investments through March 31, 1989, totaled approximately $10,515,000.

Change in Total Valuation

<table>
<thead>
<tr>
<th>Current Fiscal Year to Date</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>02-17-89</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-88)</td>
<td>$247,932,075</td>
<td>Equities</td>
<td>$106,187,718</td>
<td>40.41%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>11,066,535</td>
<td>Fixed Income</td>
<td>60,591,598</td>
<td>23.02</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(126,410)</td>
<td>Real Estate</td>
<td>36,458,000</td>
<td>13.85</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>4,310,560</td>
<td>Cash</td>
<td>59,742,444</td>
<td>22.79</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$263,182,760</td>
<td>Total Portfolio</td>
<td>$263,182,760</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

925
**Maturities That Occurred During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Real Estate**

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>
The Ohio State University
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,500</td>
<td>Acn Corp.</td>
<td>Chicago</td>
<td>29.1520</td>
<td>$160,693.50</td>
<td>$7,040.00</td>
</tr>
<tr>
<td>2,700</td>
<td>Brown-Forman Corp.</td>
<td>&quot;</td>
<td>60.7890</td>
<td>164,305.80</td>
<td>4,536.00</td>
</tr>
<tr>
<td>5,700</td>
<td>Westvaco, Inc.</td>
<td>&quot;</td>
<td>28.5000</td>
<td>162,820.50</td>
<td>5,244.00</td>
</tr>
<tr>
<td>1,900</td>
<td>Fluor Corp.</td>
<td>Nicholas-Applegate</td>
<td>24.2500</td>
<td>46,189.00</td>
<td>76.00</td>
</tr>
<tr>
<td>100</td>
<td>Student Loan Marketing Assn.</td>
<td>&quot;</td>
<td>93.7500</td>
<td>9,375.00</td>
<td>36.00</td>
</tr>
<tr>
<td>8,400</td>
<td>Tandem Computers, Inc.</td>
<td>&quot;</td>
<td>19.8106</td>
<td>166,912.82</td>
<td>0.00</td>
</tr>
<tr>
<td>1,900</td>
<td>U.S. Air Group, Inc.</td>
<td>&quot;</td>
<td>39.3330</td>
<td>74,846.70</td>
<td>228.00</td>
</tr>
<tr>
<td>2,450</td>
<td>Preformed Line Products*</td>
<td>OSU</td>
<td>71.0000</td>
<td>173,950.00</td>
<td>0.00</td>
</tr>
<tr>
<td>250</td>
<td>Fidelity Magellan Fund*</td>
<td>&quot;</td>
<td>52.1200</td>
<td>13,037.24</td>
<td>0.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Morton-Thickol, Inc.</td>
<td>Siebel</td>
<td>42.8290</td>
<td>214,495.00</td>
<td>4,200.00</td>
</tr>
</tbody>
</table>

* Gift.

$1,186,625.56 $21,360.00
### Common & Preferred Stock

#### Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,600</td>
<td>Commerce Clearing House, Inc.</td>
<td>Chicago</td>
<td>52.0000</td>
<td>$ 135,200.00</td>
<td>$ (19,500.00)</td>
</tr>
<tr>
<td>4,500</td>
<td>General Public Utilities Corp.</td>
<td></td>
<td>37.0000</td>
<td>166,201.95</td>
<td>12,645.00</td>
</tr>
<tr>
<td>800</td>
<td>Kaman Corp.</td>
<td></td>
<td>12.7815</td>
<td>10,175.20</td>
<td>(1,778.50)</td>
</tr>
<tr>
<td>8,500</td>
<td>Lance, Inc.</td>
<td></td>
<td>18.9375</td>
<td>160,437.50</td>
<td>2,625.00</td>
</tr>
<tr>
<td>5,000</td>
<td>New England Business Service, Inc.</td>
<td></td>
<td>20.5625</td>
<td>102,500.00</td>
<td>(2,500.00)</td>
</tr>
<tr>
<td>500</td>
<td>Albertson's, Inc. Nicholas-Applegate</td>
<td></td>
<td>41.8750</td>
<td>20,906.80</td>
<td>6,584.90</td>
</tr>
<tr>
<td>1,400</td>
<td>Andahl Corp.</td>
<td></td>
<td>19.0000</td>
<td>26,515.11</td>
<td>169.67</td>
</tr>
<tr>
<td>1,900</td>
<td>Consolidated Freightways, Inc.</td>
<td></td>
<td>29.7530</td>
<td>56,414.81</td>
<td>(4,147.11)</td>
</tr>
<tr>
<td>4,900</td>
<td>Consolidated Rail Corp.</td>
<td></td>
<td>35.2730</td>
<td>172,537.72</td>
<td>14,936.82</td>
</tr>
<tr>
<td>700</td>
<td>Inland Steel, Inc.</td>
<td></td>
<td>45.5000</td>
<td>31,806.93</td>
<td>5,354.93</td>
</tr>
<tr>
<td>2,400</td>
<td>Novell, Inc.</td>
<td></td>
<td>31.1456</td>
<td>74,749.40</td>
<td>8,595.71</td>
</tr>
<tr>
<td>20,000</td>
<td>Apple Computer, Inc.</td>
<td>Siebel</td>
<td>34.5625</td>
<td>680,000.00</td>
<td>(122,352.50)</td>
</tr>
</tbody>
</table>

$1,647,445.42 $ (99,366.08)
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,295,000</td>
<td>Northwestern Bell Telephone Corp. 8.125% 03/15/17</td>
<td>Boatmen's</td>
<td>9.7305</td>
<td>9.8692</td>
<td>83.5000</td>
<td>$1,081,325.00</td>
</tr>
<tr>
<td>550,000</td>
<td>Southeastern Bell Telephone Corp. 8.250% 04/01/17</td>
<td>&quot;</td>
<td>9.7721</td>
<td>9.8994</td>
<td>84.4240</td>
<td>464,332.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>&quot;</td>
<td>9.2508</td>
<td>9.2772</td>
<td>95.9375</td>
<td>959,375.00</td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>Cambridge</td>
<td>9.0735</td>
<td>9.0877</td>
<td>97.8125</td>
<td>904,765.63</td>
</tr>
<tr>
<td>2,100,000</td>
<td>U.S. Treasury Note 9.250% 08/15/98</td>
<td>STW</td>
<td>9.3633</td>
<td>9.4451</td>
<td>98.7900</td>
<td>2,074,590.00</td>
</tr>
</tbody>
</table>

$5,484,387.63
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,065,000</td>
<td>Co-operative Utility Cajun Electric Power Corp. 10.125% 03/15/19</td>
<td>Boatmen’s</td>
<td>101.6550</td>
<td>$1,082,625.75</td>
<td>$17,625.75</td>
</tr>
<tr>
<td>500,000</td>
<td>Eastman Kodak 9.950% 07/01/18</td>
<td>&quot;</td>
<td>98.1100</td>
<td>490,550.00</td>
<td>(9,450.00)</td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>Cambridge</td>
<td>95.5781</td>
<td>884,097.66</td>
<td>(20,667.97)</td>
</tr>
<tr>
<td>1,750,000</td>
<td>U.S. Treasury Bond 10.375% 11/15/12</td>
<td>STW</td>
<td>108.1563</td>
<td>1,892,734.18</td>
<td>(44,032.07)</td>
</tr>
</tbody>
</table>

$4,350,007.79 $(56,524.29)
<table>
<thead>
<tr>
<th>Description</th>
<th>Yield</th>
<th>Acquired</th>
<th>Invested</th>
<th>Appraised Value</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 930 Kinnear Road</td>
<td>10.46</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,400,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>12.00</td>
<td>1984</td>
<td>825,000</td>
<td>1,900,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>10.47</td>
<td>1961</td>
<td>659,930</td>
<td>1,150,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>8.89</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,300,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>3.18</td>
<td>1968</td>
<td>170,000</td>
<td>570,000</td>
<td>06/87</td>
</tr>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>.00</td>
<td>1971</td>
<td>100,793</td>
<td>137,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>.00</td>
<td>1973</td>
<td>33,998 (1)</td>
<td>33,998</td>
<td>N/A</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00</td>
<td>1978</td>
<td>79,246 (1)</td>
<td>79,246</td>
<td>N/A</td>
</tr>
<tr>
<td>House and .23 acres of land, 760 Beautyview Court</td>
<td>.00</td>
<td>1980</td>
<td>100,000</td>
<td>100,000</td>
<td>06/88</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>.00</td>
<td>1986</td>
<td>190,000</td>
<td>250,000</td>
<td>10/87</td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>.00</td>
<td>1962</td>
<td>160,265</td>
<td>2,762,000</td>
<td>06/87</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>.00</td>
<td>1972</td>
<td>544,398</td>
<td>4,124,000</td>
<td>06/87</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>.40</td>
<td>1968</td>
<td>310,538</td>
<td>6,472,000</td>
<td>06/87</td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>.00</td>
<td>1971</td>
<td>265,079</td>
<td>2,596,000</td>
<td>06/87</td>
</tr>
<tr>
<td>32 acres of land, 3373 West Granville Road</td>
<td>.00</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,720,000</td>
<td>06/87</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>.00</td>
<td>1965</td>
<td>24,000</td>
<td>1,020,000</td>
<td>06/87</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>.00</td>
<td>1968</td>
<td>17,114</td>
<td>727,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road</td>
<td>.00</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>20.988 acres of land on Shier-Ring Road</td>
<td>.00</td>
<td>1978</td>
<td>241,848</td>
<td>950,000</td>
<td>05/88</td>
</tr>
<tr>
<td>17.92 acres of land on Eismann Road</td>
<td>3.73</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>5.67</td>
<td>1979</td>
<td>2,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
Page 932 is blank
APPENDIX XXX

TOUCHE ROSS AUDITORS REPORT
June 30, 1988

Presented to the Investments Committee
Adopted by the Board of Trustees April 7, 1989
(See page 830)
THE OHIO STATE UNIVERSITY,
THE OHIO STATE UNIVERSITY HOSPITALS,
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND,
WOSU STATIONS AND
THE OHIO STATE UNIVERSITY DORMITORY REVENUE BOND FUND
AND HOUSING COMMISSION

LETTERS OF RECOMMENDATIONS
AND OHIO REVISED CODE COMPLIANCE LETTER

FOR THE YEAR ENDED JUNE 30, 1988
LETTER TO THE BOARD OF TRUSTEES OF
THE OHIO STATE UNIVERSITY
FOR THE YEAR ENDED JUNE 30, 1988
**TABLE OF CONTENTS**

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Letter to the Board of Trustees</td>
</tr>
<tr>
<td>II</td>
<td>The Ohio State University Letter of Recommendations</td>
</tr>
<tr>
<td>III</td>
<td>The Ohio State University Hospitals Letter of Recommendations</td>
</tr>
<tr>
<td>IV</td>
<td>The Ohio State University Development Fund Letter of Recommendations</td>
</tr>
<tr>
<td>V</td>
<td>WOSU Stations Letter of Recommendations</td>
</tr>
<tr>
<td>VI</td>
<td>The Ohio State University Dormitory Revenue Bond Fund and Housing Commission Letter of Recommendations</td>
</tr>
<tr>
<td>VII</td>
<td>The Ohio State University Ohio Revised Code Compliance Letter</td>
</tr>
</tbody>
</table>
March 21, 1989

The Board of Trustees
The Ohio State University
Columbus, Ohio

We have completed our examination of the financial statements of The Ohio State University for the year ended June 30, 1988, and our opinion thereon, dated November 23, 1988, which was unqualified, is included with the financial statements. Our examination was performed in accordance with generally accepted auditing standards.

Throughout our examination, we received the complete cooperation of management and the University's employees with whom we had contact. We had full access to all of the University's books, records and files that we required in our examination.

SCOPE OF EXAMINATION

The scope of our examination was designed to provide us with a reasonable basis for our opinion on the financial statements and additional information for the year ended June 30, 1988. Our scope included all departments and entities under the direct control of the Board. We were assisted in our examination by Parms & Co., a minority owned CPA firm, and staff auditors from the Office of the Auditor of State.

Because of their significance, investments, receivables, investment in plant, accounts payable and long-term debt received special audit attention. Also receiving special attention this year was the disclosure for pensions which was required as part of GASB No. 5 "Disclosure of Pension Information by Public Employee Retirement Systems and State and Local Government Employers", and the accrual for the Early Retirement Incentive Plan, because of its significant increase over prior years.

EVALUATION OF ACCOUNTING PROCEDURES AND THE SYSTEM OF INTERNAL CONTROL

As part of our examination, we made a study and evaluation of the University's system of internal accounting control to the extent we considered necessary to evaluate the system as required by generally accepted auditing standards.

We did not observe any material weaknesses in internal control.
We did, however, note instances where controls could be strengthened and efficiency improved. These matters are included in our letters of recommendations and may be summarized in the following areas:

1) **FINANCIAL REPORTING**

The preparation of the annual financial statements is a complex process and requires five months to complete. The University is presently not capable of producing accrual basis interim financial statements. The increasing complexity of the University's operations and the continuing decentralization of many accounting functions require that more resources be allocated to facilitate and coordinate the timely reconciliation and reporting of financial information or more effective methods found to reduce the time and effort involved.

2) **DATA PROCESSING SYSTEMS**

The University continues to become more reliant upon electronic data processing systems both at university systems and at various departmental levels, and the trend is to network many of these systems. Control and security issues must be continually addressed and standard policies and procedures established and maintained. Disaster recovery plans should be reviewed regularly and Internal Audit should play a greater role in the periodic review of departmental systems as well as university systems.

**STATUTORY COMPLIANCE**

We have tested the University's compliance with the provisions of laws and regulations where non-compliance could have either a material effect on the financial statements or be significant as a matter of public policy, public stewardship, or public accountability.

In our report, we state that the University was in compliance with such laws and regulations for the items tested except for the citations noted in the report. While many of these items are not significant, we do encourage the University to continue its efforts to meet the 15% minority business set-aside goal for University contracts.

**CURRENT ISSUES**

There are several current issues which we believe will impact the University in the future. The following is a summary of these issues and, of course, we would be pleased to discuss any of them with you in greater detail.

1) **UNRELATED BUSINESS INCOME TAX**

Congress is currently considering major changes in the 20-year-old system of taxing the "unrelated business income" of exempt organizations. As envisioned, the reforms would clarify the rules governing the application of the unrelated business income tax (UBIT). Ohio State could be significantly affected by the proposed changes, because it engages in several of the activities which may be defined "per se" as unrelated and, therefore, taxable.

938
2) IRC SECTION 89

The Technical Corrections and Miscellaneous Revenue Act of 1988 contains language which modifies Internal Revenue Code (IRC) Section 89 nondiscrimination rules applicable to statutory fringe benefit plans, such as health and group-term life insurance, and provides definitions of "highly compensated" and "part time" employees for the purpose of implementation of these rules. We recommend that a review be performed for all employee benefit plans and programs in order to evaluate compliance with these new provisions. IRC Section 89 is effective for plan years beginning after December 31, 1988.

3) OMB CIRCULAR A-133

OMB has proposed a new audit directive for colleges and universities, Circular A-133, "Audits of Institutions of Higher Education and Other Nonprofit Organizations." This would mandate a "single audit" approach for all federal funds received by the University on an annual basis.

4) AUDITING STANDARDS BOARD OF THE AICPA

In May 1988, nine new statements on auditing standards were issued. They are designed to address the perceived "expectation gap" between preparers and users of financial statements. The most visible changes from these statements are the new formats for the auditor's report and the auditor's comments on internal controls.

5) FINANCIAL ACCOUNTING STANDARDS BOARD/GOVERNMENTAL ACCOUNTING STANDARDS BOARD

There has been much discussion as to whether or not public Universities should follow the financial reporting requirements of the Governmental Accounting Standards Board (GASB) or the Financial Accounting Standards Board (FASB). Presently, the University must follow the requirements of GASB, and to the extent that GASB is silent on an issue, FASB. The Financial Accounting Foundation is presently reviewing this jurisdictional issue and is expected to take action on its findings by April 30, 1989.

The following items relevant to the University have been issued or are being discussed by GASB/FASB.

Statements issued by FASB during fiscal 1988:

- Recognition of Depreciation by Not-for-Profit Organizations
- Consolidation of All Majority-Owned Subsidiaries
- Statement of Cash Flows
Accounting for Leases: Sales-Leaseback Transactions Involving Real Estate; Sales-Type Leases of Real Estate; Definition of the Lease Term; Initial Direct Financing Leases

Deferral of the Effective Date of Recognition of Depreciation by Not-for-Profit Organizations

The following topics have been discussed by FASB and should be published this year:

Disclosure of post retirement benefits other than pensions.
Recognition and measurement of contributions.
"Display" in the Financial Statements of Not-for-Profit Organizations.

Statements issued by GASB during fiscal 1988:

Applicability of FASB Statement No. 93, Recognition and Depreciation by Not-for-Profit Organizations, to Certain State and Local Governmental Entities


Preliminary Views Document - Major issues related to State and Local Governmental Employers' Accounting for Pensions.

* * * * * * * * * *

We very much appreciate the opportunity to be of service to The Ohio State University and to you, its Board of Trustees.

Very truly yours,

Patrick J. O'Reilly, Partner
THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

FOR THE YEAR ENDED JUNE 30, 1988
November 23, 1988

Board of Trustees
The Ohio State University
Columbus, Ohio

We have examined the financial statements of The Ohio State University for the year ended June 30, 1988, and have issued our report thereon dated November 23, 1988. As part of our examination, we made a study and evaluation of the University's system of internal accounting control to the extent we considered necessary to evaluate the system as required by generally accepted auditing standards. The purpose of our study and evaluation was to determine the nature, timing and extent of the auditing procedures necessary for expressing an opinion on the University's financial statements. Our study and evaluation was more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole.

The management of The Ohio State University is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of control procedures. The objectives of a system are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles.

Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projection of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.
Our study and evaluation made for the limited purpose described in the first paragraph would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control of The Ohio State University taken as a whole. Our study and evaluation disclosed no condition that we believed to be a material weakness. However, we did note the items described on the following pages which we wish to bring to your attention.

The letter of recommendations for the University Hospitals, OSU Development Fund, WOSU Stations, OSU Dormitory Revenue Bond Fund and OSU Housing Commission have been previously issued. Copies of these letters are included for your review.

Items denoted with an asterisk (*) were included in the prior year's report and were considered appropriate for inclusion in this letter.

This report is intended solely for the use of management and the Board of Trustees and should not be used for any other purpose. This restriction is not intended to limit the distribution of this report, which, upon acceptance by the Auditor of State of Ohio, is a matter of public record.

Certified Public Accountants
University Systems

*1. Observation

Tape files can be accessed by unauthorized personnel. It is our understanding that the University has purchased and is implementing a security package called Top Secret from Computer Associates.

Recommendation

We recommend that the implementation of Top Secret be completed as soon as possible.

University Response

Respondent: Larry Buell, Assistant VP University Systems

University Systems has purchased the security package called Top Secret from Computer Associates. This product was delivered in March 1988. An analyst has been assigned to create an implementation plan. Total implementation of this product is estimated at two years. However, the product will be phased in over this time period. The target date for completion is January 1, 1990.
University Systems

*2. Observation

There is no formal written disaster recovery plan in effect for the University Systems.

Recommendation

A disaster recovery plan should be documented and tested to enable University Systems to recreate the system and resume processing in the event of a critical failure or destruction of data processing capability. The plan should address as a minimum:

- Hardware/alternate processing site
- Data communications
- Master files/database records
- Operating system and application programs
- Transaction data
- Special documents or forms
- Duties and responsibilities

Due to the varying operating procedures required by the University during the year and the limited capacity available from the University's backup systems, critical applications should be identified and prioritized to ensure limited on-going support until full operational capabilities can be resumed. In addition, a risk review should be performed as part of the annual testing to ensure that the University has adequate insurance to cover the equipment, software, reconstruction of programs and data and business interruption costs.

University Response

Respondent: Larry Buell, Assistant VP University Systems

We are reviewing the requirements for a formal written Disaster/Recovery Plan. We have recently met with a Disaster/Recovery Consultant Firm and further discussions are planned, however, we believe the time and expense involved to develop this capability will be astronomical. We have discussed the Disaster/Recovery need with the senior management of the Computer Centers located at The Ohio State University and we all agree there is a mutual need to support any extended outage. The target date for a review is April 1, 1989.
University Systems

3. Observation

Due to recent key personnel changes within University Systems and the fact that University departments are performing more of their own computer processing, senior members of the University Systems are unsure of the direction of the University Systems data center.

Recommendation

Once selected, the Assistant Vice President of University Systems should set as a priority the determination of the direction of the University Systems and communicate this with the employees.

University Response

Respondent: Larry Buell, Assistant VP University Systems

A revised statement of direction has been developed. It has been posted and distributed to University Systems employees and to the University community as of January 1, 1989.
4. Observation

The primary responsibility of the University Systems Security Administrator is the implementation of Top Secret and monitoring the physical security of the University Systems building.

Recommendation

In addition to monitoring the implementation of Top Secret and building security, Security Administration should perform various procedures to protect the data and resources from unauthorized access, loss, embezzlement, theft, natural disasters and fraudulent activities. These various procedures should include as a minimum:

- Periodic reviews of transaction logs.
- Periodic tests of the tape file backup procedures and inventories of tapes at backup locations for proper files and generations.
- Assistance with the development and testing of the disaster recovery plans.
- Periodic reviews of the application development and change procedures to ensure compliance with established standards.
- Reviews of the organizational structures to ensure adequate segregation of critical duties.
- Periodic reviews of the security systems to ensure passwords are periodically changed and adequately controlled.
- Reviews to ensure that output is properly distributed.
- Reviews to ensure that established physical security procedures are performed.

The Security Administration function within University Systems should be restructured and staffed to allow for the above procedures to be performed.

University Response

Respondent: Larry Buell, Assistant VP University Systems

We agree with the recommendations. The audit of inventoried tapes and reviews of physical security are currently being done. The remaining ones will be implemented as time permits.
University Systems

5. Observation

University Systems presently maintains a number of separate data base files, each requiring its own programmers for support. The present backlog of programs to be modified or developed for the data bases is approximately one year. User departments not utilizing a separate data base receive limited application development support.

Recommendation

We recommend that a Steering Committee be created to provide guidance and direction for University Systems. The Steering Committee should be responsible for prioritizing projects to ensure compliance with overall University goals. Additionally, the Steering Committee should strive to integrate the various user data bases to reduce redundancy of data, to reduce the need for separate data base programming staffs, and to provide better support for non-data base users.

University Response

Respondent: Larry Buell, Assistant VP University Systems

University Systems is in the process of selecting members to serve on the Steering Committee. The Steering Committee's function and responsibilities will be the same as outlined in the report created by The Task Force on Computers and the Future of the University Committee.
THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

IRCC Systems

6. Observation

The Director of Academic Computing has the responsibility of reviewing all university purchases of computer hardware and software to ensure compatibility. The present system for requiring vendors to demonstrate their system's compatibility on the University's network appears to be working well. However, a consolidated list of approved vendors, equipment and software has not been provided to the user departments.

Recommendation

A consolidated list of approved vendor hardware and software should be maintained and distributed to the user departments. This approved list should ensure system compatibility and reduce departmental review time by limiting the systems to those on the approved list.

University Response

Respondent: Robert S. Dixon, Director of IRCC

The recommendations do not accurately portray the current status. Here is the actual situation:

1. When a vendor asks IRCC about compatibility with the campus network SONNET, we ask them to provide us with their hardware and software so that we can test it ourselves. No vendor has total compatibility; it is a matter of degree, with some features working well, some working poorly, and some which are totally absent. We write a report explaining all this, give the vendor an opportunity to clear up any misunderstandings and then make the report available to all interested parties. However, thus far this complete process has only occurred for one vendor, despite promises from others to participate. Another test is now in progress, and several others are scheduled. The net result is that there cannot be an "approved" list, only a "tested and evaluated" list.
THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

IRCC Systems

University Response - (Continued)

2. The above testing process has almost nothing to do with the approval of University purchases by IRCC. Almost all purchases are for microcomputers, and they do not directly attach to the network, so the testing is irrelevant for them. They attach via servers, which are ordered only rarely.

3. A document describing "recommended" microcomputer systems is published.
Billings and Accounts Receivable System (BARS)

*7. Observation

Reconciliations between the BARS and FAS are not being performed. BARS is a complex system whose transactions create significant accounting entries which affect many FAS accounts. Quarterly reconciliations provide for the timely identification and correction of errors in FAS. Such reconciliations are critical control procedures to assure all transactions are properly recorded in both BARS and FAS.

Recommendation

We recommend that reconciliations be prepared quarterly by Fees and Deposits for the following items:

1. The aged accounts receivable trial balance (both student and third party).
2. Deferred revenue accounts.
3. Fee payment authorization accounts.

University Response

Respondent: Al Rodack, Associate Treasurer, Treasurer's Office

Reconciliations are performed on an annual basis. Quarterly reconciliations were not achieved during the fiscal year 1987-1988; however, attempts will be made to implement these reconciliations during fiscal year 1988-1989.
Billings and Accounts Receivable System (BARS)

*8. Observation

A detailed accounts receivable trial balance is maintained but not reconciled on a quarterly basis for the third party accounts.

Recommendation

A detailed accounts receivable trial balance should be maintained on a quarterly basis for third party accounts and reconciled to the summary totals in the aged accounts receivable report.

University Response

Respondent: Al Rodack, Associate Treasurer, Treasurer's Office

Reconciliations are performed on an annual basis. Quarterly reconciliations were not achieved during the fiscal year 1987-1988; however, attempts will be made to implement these reconciliations during fiscal year 1988-1989.
9. Observation

Charges for employee fee authorization expenses are not being posted to the individual department expense accounts on a timely basis. This is due to the lack of a coordinated effort between the Office of the Treasurer and Personnel Services.

Recommendation

In order for the individual departments to be charged in a timely manner the Office of the Treasurer and the Office of Personnel Services should jointly develop and implement a system to transfer expenses related to employee tuition fees.

University Response

Respondent: (1) Al Rodack, Associate Treasurer, Treasurer's Office

A system was implemented beginning Summer Quarter of 1988. An invoice is sent to Personnel Services during the seventh week of the quarter (after BARS clean up processing). Personnel Services then has two weeks to pay the invoice. Their payment generates charges to the appropriate departmental expense accounts.

Respondent: (2) Madison H. Scott, VP, Personnel Services

The Office of Personnel Services and the Office of the Treasurer have jointly developed a mechanized system which will enable Employee Fee Authorizations to be processed more efficiently. Specifically, during the seventh week of the current quarter Fees and Deposits will forward a mechanized listing of participants to the Office of Personnel Services. From this listing, no later than the eighth week of the current quarter, the Office of Personnel Services will charge the value of the Employee Fee Authorizations to the respective departmental expense accounts.
Cash Receipts

*10. Observation

The armored car delivery service adheres to a fixed pick up and delivery schedule at the remote cash collection areas. While the armored car delivery service is liable for funds stolen once the armored car has arrived at a collection point for a pick up, they are not liable for funds stolen just before the armored car has arrived (the time with the most risk of theft as the greatest amount of dollars are on hand).

Recommendation

In order to reduce the risk of theft at the remote cash collection areas, we suggest that this schedule be changed periodically for each collection point.

University Response

Respondent: Al Rodack, Associate Treasurer, Treasurer's Office

We have decided we should not follow this recommendation at this time. We would incur significant additional costs with the armored car company. Operationally, it would be difficult, if not impossible, to coordinate a dynamic pickup schedule with the numerous collection points. We feel that there is minimal risk with the present system. As a practical matter, pickup times do vary at each collection point from one day to the next. Additionally, we do not feel that a changing collection route would result in less exposure to robbery. Based upon these factors, we do not plan to implement this recommendation at this time.
Purchasing and Accounts Payable

*11. Observation

During our testing of the purchasing and accounts payable system, we noted that invoices entered by Residence and Dining, the Ohio Agricultural Research Development Center and the Cooperative Extension Services were not properly cancelled upon data entry. This presents the opportunity for duplicate payments to be made in error.

Recommendation

The accounts payable policy requiring the data entry clerks to stamp their name on each entered invoice should be enforced. Satellites should be operating under accounts payable standard policies and procedures.

University Response

Respondent: Janet Achterman, University Controller

We agree with this recommendation and concur with the findings. Currently, Accounts Payable is developing an internal audit program and is anticipating performing audits on Satellite Accounts Payable offices. We will discuss both the observation and recommendation with the appropriate personnel in the Satellite Accounts Payable offices.
Purchasing and Accounts Payable

*12. Observation

Currently, all vendor invoices which are below $1,000 are automatically paid within 30 days unless the department submits a document to accounts payable requesting that the invoice not be paid. This negative approval approach assumes the department will receive and review invoice copies in time to stop the processing of a check if necessary. However, during our testing, certain departments indicated they do not always receive copies of invoices in time to stop check processing.

Recommendation

We recommend that when invoice copies under $1,000 are sent to a department for review, a control sheet detailing these invoices be included for the department head to sign off his approval to pay and then return to accounts payable prior to checks being distributed.

University Response

Respondent: Janet Achterman, University Controller

We understand the concern and content of the observation. However, we are unable to determine the number of departments and the frequency of occurrences of untimely receipt of invoices. As a result, it is difficult to determine the cost-benefit of implementing such a program.

The control sheet discussed in the recommendation is the Accounts Payable Turnaround Document. This report was designed for 100 percent Exception Approval and will be placed into weekly production if 100 percent Exception Approval is implemented. This document will be sent to each department and returned to Accounts Payable with the departmental approval.
THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

*13. Observation

For goods received by a department rather than through central receiving, we noted several instances in which the department had no receiving record or packing slip. The departments with exceptions are as follows:

- Department of Physics
- Department of International Studies
- Facilities Engineering
- Ohio Union
- Office of Academic Affairs

Recommendation

The University should enforce its policy requiring departments to retain a record of receipt of goods.

University Response

Respondent: (1) James Garland, Chairperson, Physics

The reason these, and possibly other, packing slips are missing is because some of our faculty receive delivered items, open the package and either discard the packing slip or lose it. The department administration and our capable fiscal operation staff understand, agree with, and attempt to follow University procedure in these matters. It is frustrating to us, and adds to our accounting problems when these procedures are not followed. We shall continue our efforts to enlist better cooperation.

Respondent: (2) Stephen J. Summerhill, Assistant Vice Provost International Studies

The instance of an absent packing slip occurred with a computer item which, unlike normal circumstances, the supplier delivered and installed at the same time. The item in question, an Etherlink Board, was in fact installed and is presently operational in our computer Local Area Network.

It was our oversight not to request the packing slip of the supplier. The oversight was caused by the special circumstances. We will be sure to request packing slips in similar situations from now on.
Purchasing and Accounts Payable

University Response - (Continued)

Respondent: (3) Stuart Brace, Director Hospital Facilities Engineering

I believe that the facts are correct and therefore concur with the findings. I also accept the recommendation and my staff have taken the appropriate steps to correct this problem.

Respondent: (4) David Mucci, Acting Director, Ohio Union

It is the policy of the Ohio Union to keep packing slips whenever possible. Many of our vendors do not send packing slips with the order but instead they send the invoice with the order. When this is the case it is our policy to check the order and sign the invoice to indicate that the delivery was received.

We have in the past had trouble with the invoices for Nickles Bakery not being signed due to the early hour of their delivery. We have informed our staff that the order is still to be checked and the invoice signed before the invoice will be processed for payment.

Respondent: (5) David Boyne, Associate Provost, Academic Affairs

We acknowledge that on a book purchase during 1987-1988 this office did not retain the packing slip for the book.

In a meeting on September 30, 1988, we will inform all secretaries and support staff that receiving records and packing slips will be retained on all purchases for the office.
Purchasing and Accounts Payable

14. Observation

Many authorized signer cards are either out of date or missing.

Recommendation

In order for purchasing to perform a proper review of purchase order and purchase requisition authorization, we recommend that current authorized signer cards from each department be obtained.

University Response

Respondent: Penny O'Neil, Assistant VP, Business Services

The concept for Purchasing to have an up-to-date file of signature authorization cards was fine in earlier times. However, as we become more automated, especially with on-line requisition entry, it must be the using department's responsibility to establish appropriate authorization procedures. We will continue to evaluate the need for signature cards, especially for those departments which do not have on-line requisition entry capability.
Purchasing and Accounts Payable

15. Observation

The accounts payable system (PDS) does not have an automated interface with the purchasing system to allow payments made to be posted against purchase orders. Consequently, the Purchasing Department does not have a transaction history by purchase order readily accessible to be used for vendor assistance and purchase order monitoring.

Recommendation

Consideration should be given to modifying the current systems to allow for such an interface.

University Response

Respondent: Janet Achterman, University Controller

We disagree with the observation. Currently, the Purchasing Department does have transaction history by purchase order readily accessible to be used for vendor assistance and purchase order monitoring. The Purchasing Department has terminals which access the accounts payable system (PDS).

We will work with the Purchasing Department as requested to develop an automated interface between the purchasing system and the accounts payable system (PDS).

Respondent: Penny O'Neil, Assistant VP, Business Services

We agree with this recommendation. Preliminary work on this has been started. Work will resume after the new release of the purchasing system has been installed (approximately 11/15/88).
16. Observation

The purchasing system does not monitor whether a department completing a purchase order is an authorized user of the FAS account to be charged.

Recommendation

In order to reduce the likelihood of expense misclassification, consideration should be given to modifying the purchasing system to provide this review.

University Response

Respondent: Penny O'Neil, Assistant VP, Business Services

One feature of the new release is account validation. The department number and accounting information must match the FAS master chart of accounts in order to continue entering the requisition.
Personnel Services

*17. Observation

For each salary payroll processed, the individual payroll notice card (PNC) gross amount is compared to the proof listing prior to approval of the check run.

Recommendation

As each PNC addition or change has already been checked more than once prior to the receipt of the proof listing, we recommend a tape be run on the PNCs and the total compared to the total on the check proof listing. If no discrepancy is found between the two totals, check processing may then be approved.

University Response

Respondent: Madison H. Scott, VP, Personnel Services

On-line payroll processing will eliminate the need for the PNC. Until this new system is installed, we suggest that the current procedures be continued.
Personnel Services

*18. Observation

Current information is not maintained for all departments for calculation of accrued vacation and sick leave expense by the University. We understand that this responsibility has been considered to be that of each individual department. However, during our testing of payroll benefits, we noted certain departments which were not keeping adequate vacation and sick leave documentation.

Recommendation

We recommend that the Office of Personnel Services consider implementation of an automated timekeeping system, which would automatically calculate sick and vacation balances, on a University-wide basis. Until such a system is implemented, the Office of Personnel Services needs to keep the fiscal officers of each department or college unit aware of their responsibility to maintain vacation and sick leave documentation.

University Response

Respondent: Madison H. Scott, VP, Personnel Services

The Office of Personnel Services has and continues to consider implementation of a comprehensive automated timekeeping system for all University employees. This consideration will become a higher priority when sufficient resources are available to develop such a system on a University-wide basis. In the interim, University Systems, with the approval of the Office of Personnel Services, has developed a vacation and sick leave tracking system. This automated process was approved by Internal Audit, and is available on a University-wide basis. In conjunction with introducing this new system to the University Community, the Office of Personnel Services will continue to stress the importance of maintaining viable vacation and sick leave records.
Moveable Equipment

*19. Observation

The Department of Medicine and Hospital areas present special control problems to the University in terms of maintaining accurate location records, due to the necessity of moving special equipment to where it is needed.

Recommendation

Although it is impractical to monitor movement within these locations, we do recommend that the University investigate the feasibility of a tagging system for moveable equipment within these areas to detect whenever this equipment is removed from its assigned area. Movements of this nature could then be controlled through the moveable equipment data base by completing the OSU property status change form, or through logs maintained at each location for short-term movements.

University Response

Respondent: David Marsh, Assistant VP, Campus Planning and Space Utilization

University Hospital is installing a new data base to track moveable equipment. The Division of Equipment Inventory is working with the hospital to build an interface with EIS. The hospital has been working with our downloaded information to create their data base, but this has been more involved than they expected. Once we get the two data bases in sync and determine how to capture new information, we will address the recommendation.
Financial Accounting System (FAS)

*20. Observation

The University's Financial Accounting System is infrequently reconciled to the University Hospitals and OSU Research Foundation records. This appears to be the result of the following:

a) In some cases, the entities' records are maintained on a different basis of accounting for purposes of reporting than that of the University.

b) A lag often exists from the time that a transaction is recorded by the individual entity until it is recorded by the University.

c) In some instances, the difficulty is compounded by entries which are recorded by the entity but fail to be transmitted to the University and FAS.

Recommendation

We recommend that management assign responsibility to accounting personnel from the University Hospitals, OSU Research Foundation and the University to reconcile their accounting on at least a quarterly basis. We understand that such procedures are actively being established with the University Hospitals and encourage the same be done with OSU Research Foundation.

University Response

Respondent: Janet Achterman, University Controller

We agree with this recommendation and will continue to work with University Hospitals and the OSU Research Foundation to complete quarterly reconciliations.
Intra-University Billings

*21. Observation

During our year end audit work, we noted that intra-university billings were not being made by the University Architects Office on a timely basis.

Recommendation

We recommend that the University Architects Office work to bring such billings up to date.

University Response

Respondent: Dick Eschliman, Assistant VP, University Architect

We learned that Touche Ross' comments were based on information obtained from the FAS AM091 report for May 31, 1988. We agree that at May 31, 1988 our position per the AM091 report looked unsatisfactory.

It should be noted, however, that adjustment and accruals for the entire 1987-1988 fiscal year were not processed until June, 1988. Therefore, the information on the May AM091 was not an accurate statement of our actual position.

Our account position was as follows for Work-in-Progress: May 1988 AM091 - $8,545,032.22; June 1988 Actual - $2,859,661.90.

We feel our department made substantial progress in rectifying the billing situation during fiscal year 1987-1988 ($7,762,213.46 billed). In addition, our department will process adjustments and accruals on a monthly basis during the 1988-89 fiscal year.
22. Observation

Reconciliations between the bank deposit slips and the bookstores' daily sales report are not being performed on a timely basis.

Recommendation

We recommend that the reconciliations between daily deposit information and recorded sales be performed in a timely manner.

University Response

Respondent: A.J.R. VanBuren, Assistant VP, Business Services

The bookstores' accounting section implemented additional procedures in June, 1988, to assure that bank deposit slips are received from all stores for all cash, check and charge card deposits, and that the deposit slips match the amounts reported on the stores' daily reconciliation form. The reconciliation generally takes place within 48 hours of the receipt of the bank deposit slips.
Internal Audit

23. Observation

As the University departments continue to purchase their own hardware and software, the future trend will be to network various departmental systems and utilize SONNET. The control and security issues relating to departmental systems are as critical to the departments as are the issues relating to University Systems.

Recommendation

Internal Audit should periodically review the departmental computer systems to ensure that control and security issues have been adequately addressed. These reviews should be performed to ensure that data are properly managed and protected securely against risks such as unauthorized access, loss, embezzlement, theft, natural disasters and erroneous or fraudulent activities. Adequate policies and procedures for each departmental system should be reviewed to give control assurance that the data is safeguarded and that complete, accurate, authorized, consistent, timely, reliable and usable data and information are produced for the intended purposes.

University Response

Respondent: Mark A. Hilligoss, Director, Internal Audit

While we agree with the observation, we have conducted reviews of departmental systems within the limits of our resources. Specifically, during fiscal 1988, our system reviews included two micro-computer based systems, Expenditure Tracking System and Vacation/Sick Leave System; College of Dentistry; University Library; Traffic and Parking; Mershon Auditorium; University Health Services; and Ohio Union's Dash Cash System. Our departmental computer audit program addresses the risks stated in the recommendation. Also, the program has been enhanced to address network concerns that include SONNET.

Recognizing the need for increased abilities to review diverse departmental systems, we conduct in-house EDP training for our auditors to enable them to become and remain current on new trends and technologies in data processing.

We are unable to increase our emphasis in the EDP area without shifting resources from operational and financial audits, given our present commitment of resources to the mission of adequately ensuring balanced coverage regarding financial, operational and EDP risk areas.
Division of Accounting

24. Observation

There is no formal documentation of the monthly reconciliation which is performed between the accounts payable trial balance and the FAS account balances. Such documentation provides for timely identification and correction of errors.

Recommendation

The Division of Accounting should document the monthly reconciliation between the accounts payable trial balance and the FAS account balances.

University Response

Respondent: Janet Achterman, University Controller

We agree with this recommendation. Beginning June 30, 1988, the monthly reconciliation process is being documented.
THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

YEAR ENDED JUNE 30, 1988
November 23, 1988

Boards of Trustees
The Ohio State University and
The Ohio State University Hospitals
Columbus, Ohio

As part of our examination of the financial statements of The Ohio State University for the year ended June 30, 1988, we studied and evaluated The Ohio State University Hospitals' system of internal accounting control to the extent we considered necessary in order to meet the requirements of generally accepted auditing standards. These standards require a study and evaluation of internal accounting control only for the purpose of determining the nature, timing and extent of auditing procedures necessary for expressing an opinion on The Ohio State University financial statements. Our study and evaluation was, therefore, more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole and would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control.

Our study and evaluation, made for the limited purpose described above, disclosed no conditions that we believe to be a material weakness. However, we did note the items in the following pages which we wish to bring to your attention.

We also have reviewed the status of our prior year recommendations and we noted that the Hospitals have taken appropriate action in implementing most of the recommendations. Items not fully implemented are noted with an asterisk (*) in this report.

This report is intended solely for the use of management and the Boards of Trustees and should not be used for any other purpose. This restriction is not intended to limit the distribution of this report, which, upon acceptance by the Auditor of State of Ohio, is a matter of public record.

Touche Ross & Co.
Certified Public Accountants
THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

1. Data Center Physical Security and Environmental Controls

During a tour of the Hospitals data center, physical security and environmental control weaknesses were identified. The roof leaked above the computer equipment due to construction efforts. The cooling systems used are experiencing mechanical failures. Due to the size of the facilities and the large amount of equipment, there is little room available for future expansion and a concern regarding the effectiveness of the Halon fire extinguishment system. The rear door to the computer room, leading into an alley, does not have an alarm to alert personnel of unauthorized entrance or exit from the facilities.

Recommendation

We recommend that the following be implemented to strengthen the physical security and environmental controls of the Hospitals data center:

a) Due to size constraints of the computer room, a facilities review should be conducted to identify possible new locations for the center having adequate size for expansion. The results should then be reviewed and consideration given to relocating or expanding the computer facilities.

b) Computer equipment is required to be maintained at specific temperatures. The present air conditioning units are old and have had maintenance problems. Consideration should be given to replacing the air conditioning equipment.

c) Because of the quantity of equipment in the computer room and the limited size, a study should be performed to review whether the Halon fire extinguishment devices are adequate to extinguish a fire from within the facility.

d) In order to control access into and out of the computer room, an alarm should be connected to the computer room's rear exit door. The purpose of the alarm is to alert personnel of someone possibly gaining unauthorized access and to discourage employee theft.
e) We understand that the leak in the roof has been repaired; however, periodic reviews of the departmental computer facilities and the Hospitals data center should be conducted by the Security Specialist in order to ascertain the security of the equipment from theft, fire, water, heat, humidity and other disasters.

Status of Observation

a) The Computer Operations Department is currently in the process of reviewing space for hardware within the Computer Center. This process has taken a two phase approach, with the first phase involving re-allocation and renovation of existing raised floor space to accommodate growth over the next 1-3 years. This first phase was completed in September of 1988 and is currently in the process of being implemented. The second phase of the process involves total review and capacity planning for total square footage requirements covering a 3-15 year time frame. This study covers total facility needs and includes evaluation of possible new locations.

b) Environmental control systems in use in the computer room are aging and will be considered for replacement in conjunction with overall facilities planning. While we have had some maintenance calls on these units, we have experienced no significant problems in keeping them in operation.

c) We agree with this recommendation and will commission a study of the HALON system.

d) Alarms are not necessary since the area is attended at all times and entrances are within site of the operators in attendance.

e) While all departmental computing facilities do not fall under the control of Computer Operations or Information Services, those that do are constantly reviewed for protection of equipment. Deficiencies are dealt with when identified.
2. Network Data Security

With the installation of the network connecting the departmental computer systems, the issues of data security have not been adequately addressed. Based upon discussions with several staff members, in some areas, the use of password security for the Hospitals is used only as a formality. It appears that it is common practice to distribute system passwords to an entire department. In some areas, once a computer terminal has gained access to the system, terminals are allowed to remain on-line unattended from early morning until the system automatically shuts the terminals down at around 1:00 a.m. A clear audit trail of who has accessed files does not exist. Severe consequences such as litigation due to unauthorized access of patient files may result, should the security of data not be strengthened.

Recommendation

We recommend that the following be implemented to strengthen data security within the Hospitals' systems network:

a) A Security Committee, reporting directly to the Administrator of Information Services, should be created to review the security issues concerning the network and to ensure the development of enforceable security policies. At a minimum, the committee should consist of the following personnel:

1. A liaison between the User departments and Information Processing.
2. A member of Patients Rights (for confidentiality issues).
3. The Medical Records Administrator.
4. The Patient Admitting Administrator.
5. The Director of Hospital Security.
6. The Director of Outpatient Operations.
7. The Manager of Risk Management.
8. A member of Internal Audit.
9. A senior member of computer operations (for advice concerning system security capabilities and implementation).
b) Because of the complexities of the Hospitals' systems network and the sensitivity of the data, a full time Data Security Specialist position with staff, should be created and filled. The Security Specialist should report directly to the Administrator of Information Services and to the Security Committee. The security staff should perform various procedures to protect the data and resources from unauthorized access, loss, embezzlement, theft, natural disasters, and fraudulent activities. These various procedures should include at a minimum:

1. Reviews of the security systems to ensure passwords are periodically changed and adequately controlled.
2. Reviews to ensure that established data and physical security procedures are complied with.
3. Daily reviews of transaction logs to identify security weaknesses or breaches.
4. Oversee the physical security of the various departmental and Hospitals systems computers by ensuring that strict access policies have been developed and enforced as well as ensuring that the systems are adequately protected from natural disasters such as heat, humidity, fire, water and electrical outages.
5. Assistance with updating and testing of the Hospitals Systems Disaster Recovery Plan.
6. Periodic tests of the tape file backup procedures and inventories of tapes at backup locations for proper files and generation.
7. Periodic reviews of the application development and change procedures to ensure compliance with established standards.
8. Reviews to ensure that output is properly distributed.

c) Due to the sensitivity of patient files and data, we do not recommend that the Hospitals systems be connected to the SONNET (System Of Neighboring Networks) system.

d) A transaction audit trail should be created to permit the Security Specialist to trace each transaction to a specific person, to determine the files accessed and the changes made for any system transaction.
e) Computer terminals not being utilized for a limited period of time should be automatically signed-off of the system.

Status of Observation

Until recently, the management of password assignment was primarily the responsibility of the supervisors and directors of each department on an application by application basis. Some departments had tight, well maintained security, while others did not. As system management has become more centralized, so has the management of password security; the Information Services Division now plays a direct role in the management of password security assignments. The assignment of "department passwords" will be carefully scrutinized in the future. Further explanations of password security within the Hospitals is detailed in the document, titled CICS Security Procedures; further discussion of security philosophy is in the description of the Data Security Committee that follows.

a. In the summer of 1988, a Management Council Committee was formed to address Data Security within the Hospitals' changing Information Systems environment. The Chair of the committee, the Coordinator for Clinical Information Systems, reports to the Administrator for Information Services. This committee meets once a month for the purpose of enhancing existing and/or developing new Policies and Procedures necessary for Data Security.

Currently the committee is conducting a national survey of other major medical centers and their security policies. The focus will then be on OSUH's new development projects within the Network environment. The initial phase of the Hospitals Network System represents clinical computing; therefore, the committee is focused on the future needs of interactive and widely used clinical applications and systems. In particular, the access of patient information from off-site facilities and staff, as well as use by in-hospital personnel is being reviewed.

The Committee plans to make Policy and Procedure recommendations in June, 1989.
Status of Observation (Continued)

b. While the addition of any staff to the department would be appreciated, the security of systems is managed by both the procedures outlined in CICS Security Procedures, (specifically under the headings DAILY, WEEKLY, and SIX MONTHS) and by the Coordinator for Clinical Information Systems. This position has responsibility for Clinical Information Security and also chairs the Management Council Committee for Data Security described above. The method of follow-up and enforcement of policies is also being addressed by the Data Security described above. The method of follow-up and enforcement of policies is also being addressed by the Data Security Committee and any changes or enhancements will be included in the recommendations made to Hospitals Administration in June.

c. The issue of security in regards to SONNET is and has been reviewed by experts from across the University. While it is considered desirable, particularly in support of the research mission of the University to have access to SONNET, until the security can be guaranteed to both the Hospitals' and to University Systems, there will be no connection between these systems.

d. As new systems are developed in the Network environment, the project development teams are specifying that audit trails be produced as interactive systems are developed.

e. The Hospitals recognize and agree with the observation concerning the automatic logging off of terminals. A project is currently underway to upgrade the release of CICS running on the mainframe computer. In this release upgrade is included the capability to specify automatic logouts for all terminals, on a case by case basis. With this enhancement the issues of automatically logging off terminals can be effectively addressed without detriment to daily operations in the areas affected.
3. Payroll

It was our understanding that the cost centers were to review the Employee Report of Time to verify payroll input. During our testing, we noted that this was not being performed.

Recommendation

The Hospitals' cost centers should perform a verification of payroll input and output. We are aware of several cost centers which record employee hours per time sheets and verify these hours to payroll output. This policy should be enforced for all cost centers.

Status of Observation

Communication was made to the Cost Centers last year explaining the need for verification and that they were to be responsible for compliance. Compliance has been sporadic thus far, and this issue will receive additional emphasis in early 1989 to assure compliance before the next audit. In conjunction with the verification process, we will be implementing new time card procedures which will require that all time cards be submitted with batch controls. This will minimize late and missing time cards and, in general, will provide for improved tracking of the time cards through the entire payroll process.

Once the new procedures are implemented, the Hospital's Auditors will verify compliance.
4. Outpatient Billing Systems

Many ambulatory charges are not being billed due to medical current procedure terminology CPT codes being input into the billing system rather than surgical codes. In addition, the system table of ambulatory charges is not being updated. As a result, charges input for services are not being billed.

Recommendation

To facilitate charges being billed properly and timely, uniform coding procedures should be established for all departments inputting ambulatory services and the system edit table of ambulatory charges should be updated on a timely basis. Additionally, edit listings of unbilled ambulatory services should be reviewed regularly and corrected for subsequent billing.

Status of Observation

The overall observations made by Touche Ross are correct, but some clarification needs to be made as to why systems and procedures are currently the way they are.

The Table of Ambulatory Charges has not been updated since the system was implemented in September/October 1987. These updates have not occurred due to Medicare's delay in approving the 1988 CPT codes, and therefore, they will not accept them for payment. For Medicaid patients, we are using 1988 CPT codes, but are having to manually enter them onto the bill if the billing system does not accept them as a valid code.

Currently, "ambulatory charts" consist of charts for patients having ambulatory surgery on the 4th floor of Doan/Rhodes Hall, Emergency Department reports and Outpatient Surgeries performed in the Clinic. The coding of these records is performed by many individuals, including Medical Record Coding Specialists in the Medical Record Department. Since one area is not currently responsible for the coding of all of these charts, it is almost impossible to assure consistent coding from all individuals involved. On many occasions, when the Medical Record Coding Specialist has entered CPT codes into the BS81 (Outpatient Billing System), there were already codes entered onto the screen which were incorrect.
Status of Observation (Continued)

Although Medical Records correct the ones which we are responsible for, we cannot guarantee that all individuals are verifying and correcting codes before billing in the other areas. Medical Records is currently working with the Computer Center to obtain an accurate and complete listing of all individuals having access to the BS81 system. This will help determine the need for training of these individuals and also establish a line of communication to other areas to notify them of updated regulations concerning CPT coding principles.

It should be mentioned, an overview audit was recently completed by Ernst and Whinney on the Hospitals' CPT coding for Ambulatory Surgery. The preliminary verbal discussions indicate we are doing the best and most complete coding they have seen to date. This is a developing area of expertise for the entire industry and the proposed changes above will help us continue to improve.
5. Medical Record Sign-Out

Per review of the Peer Review Organization (PRO) reports we noted that seven medical records selected for review in the fourth quarter could not be located. Five of the medical records were subsequently found and reopened for PRO review. However, the remaining two records were not located and resulted in two PRO technical denials for which the Hospital is financially liable.

Recommendation

The Hospitals should continue to improve and enforce the documentation of the follow up process and sign-out for medical records signed out and not returned in a timely manner.

Status of Observation

The Medical Record Department is in the process of reviewing automated chart tracking systems since funding has been secured to purchase a system in fiscal year 1988-89.

A requirement for a chart tracking system is a report that would indicate all overdue records. This would permit prompt attention to all records not returned to the department.
6. Disaster Recovery Plan

The disaster recovery plan for the Hospitals' system has not been updated or tested to reflect the change in organizational structure and the change in processing required with the network.

Recommendation

The disaster recovery plan for the Hospitals data center should be updated to reflect the new organization. A disaster recovery plan for the remaining computers on the Hospitals network should be documented. The plan should address at a minimum:

- Hardware/alternate processing site
- Data communications
- Master files/database records
- Operating system and application programs
- Transaction data
- Special documents or forms
- Duties and responsibilities

The plan should be tested at least annually for all of the computers to enable the systems to recreate the files and resume processing in the event of a critical failure or destruction of data processing capability. The testing of the plan is beneficial to ensure that the plan is current, that personnel involved know the priorities, their duties and responsibilities; to ensure that the software will operate on a backup computer system; to identify whether the backup facility has sufficient capacity to ensure the continuation of processing capabilities; and to define the controls used to establish that recovery is complete and accurate. The plan should be developed with the assumptions of short term and long term equipment failure as well as extensive destruction of the data center. A risk review should be performed as part of the annual testing to ensure that the Hospitals systems have adequate insurance coverage for the equipment, software, reconstruction of programs and data and business interruption costs.

Status of Observation

At the time the auditors visited the facility, the organizational structure of the departments in question was in a state of flux. Now that all organizational issues have been decided, a committee of senior staff members has been formed to review, revise and publish the disaster recovery plan. Assistance in the review stages of this project will be sought from the Hospitals' internal auditing department.
Status of Observation (Continued)

In addition to the task of review and revision, the Disaster Recovery Committee has been assigned the responsibility of devising ongoing test requirements for the plan. While it is recognized that certain elements of the plan cannot be tested due to the 24 hour nature of the data center operation, the majority of the plan can and should be tested on a regular basis.

As a first step of dealing with the testing issue, the Disaster Recovery Committee organized and conducted a test of the notification procedures in the existing plan on January 27, 1989. A report of the results of the test is being drafted now. By conducting this test, it is hoped that better methods for incorporation in the final testing scenario can be identified. Once the testing plan has been finalized and regularly scheduled tests initiated, we will request our internal auditing department to monitor and control reporting on testing results.
7. Uninterruptable Power Supply

In order for the network to remain fully functional to provide accurate billings and patient records, each computer being networked will require an Uninterruptable Power Supply (UPS) to ensure that transactions are not lost during power outages.

**Recommendation**

Each departmental computer system and the Hospitals data center computers, should have a UPS to ensure the system is fully operational during power outages.

**Status of Observation**

The acquisition of uninterruptable power supply for computer facilities is being studied, with a range of options being considered ranging from individual devices for each computer to a building-wide UPS. It should be pointed out that applications have been designed in such a way that there is no risk whatsoever of "lost" transactions even without a UPS. The maximum exposure related to this issue is disruption of service and loss of processing capability for a period of time. All transactions are recovered and processed upon resumption of service.
Inpatient and Outpatient Billing Systems

We noted the following deficiencies in the inpatient and outpatient billing systems:

- The billing systems do not provide the capability for centralized physician billing, resulting in numerous physician invoices to individual patients.

- In certain circumstances substantial delays can occur in the issuance of billings following discharge or the performance of outpatient services.

- In the case of multiple payors, aging information for credit and collection follow up could be improved.

Recommendation

We recognize that the Hospital does not have responsibility for physician billings; however, we believe management should continue to coordinate the development of its billing system with that of the physicians to achieve maximum benefits from a centralized system.

We recommend that the Hospitals consider modification of the current billing systems to provide billing on a timely basis and to provide improved credit management information.

Status of Observation

Hospital management agrees with the above recommendations and an external consulting firm has recently completed their study on the physician centralized billing system. The same external consulting firm will begin a review of the outpatient billing cycle in January, 1989 and this study will certainly compliment the centralized physician billing system.

Until the outpatient billing system is modified, the Business Offices will continue to develop internal management reports to monitor accounts receivable and billing activities.
9. MSA General Ledger System

The Hospital is currently in the process of implementing a new MSA general ledger system. This system is to be fully implemented in fiscal 1989.

Recommendation

Due to the large number of applications used on microcomputers, consideration should be given to generating these using the MSA report writing capabilities. Proper controls and security should be maintained upon retrieval of data from the MSA system. In addition, internal audit should be involved with the installation and conversion of the new system to ensure that controls are in place to protect data integrity.

Status of Observation

In the fall of 1987, the Hospitals Board reviewed the proposal that gave The Ohio State University Hospitals the opportunity to contract with Management Science America (MSA) to be a beta site for their DB2 General Ledger System. This system has been installed and the Hospital is now busy working on the conversion process. At the present time, we are writing the reports that will be used for financial reporting and we are hopeful the final conversion will take place in early 1989. Security controls have been initiated with password requirements necessary for access and internal audit has been invited to review the controls.

Discussions have recently begun on sub-system interfaces and those will immediately follow conversion to reduce the number of applications on microcomputers. Hospital Management is pleased with this conversion thus far, and is confident this system will meet many of our needs for financial reporting.
10. Financial Accounting System (FAS)

The University's Financial Accounting System is infrequently reconciled to the Hospitals' financial accounting system. This appears to be the result of the following:

a) In some cases, the Hospitals' records are maintained on a different basis of accounting for purposes of reporting than that of the University.

b) A lag often exists from the time that a transaction is recorded by the Hospitals until it is recorded by the University.

c) In some instances, the difficulty is compounded by entries which are recorded by the Hospitals but fail to be transmitted to the University and FAS.

Recommendation

We recommend that the Hospitals reconcile their financial accounting system to the University's Financial Accounting System on at least a quarterly basis.

Status of Observation

The Hospitals' Fiscal Services Department is working with the University Controller's Office for ways to simplify the reconciliation process. More emphasis will be spent on accomplishing this recommendation by June, 1989. We will explore opportunities to eliminate the manual reconciliation process with a mechanized approach as the reconciliation process that currently exists is far too complicated and cumbersome. We agree additional emphasis is needed in this area.

Programmers and other staff do not have access to updated versions of application development standards and systems facilities manuals. By not using current versions of standards, the possibility of inconsistent programming, excessive errors and inadequate documentation exists.

Recommendation

We understand that a project team has been organized and is presently working on the development of current standards. We recommend that the standards review and updating process be continued.

Status of Observation

The project team is currently finalizing the contents of the standards and policies manual and will be assigning sections to individuals to revise outdated material.
12. Room and Board Processing

On certain dates, processing of midnight census data was aborted and not rerun resulting in room and board charges not being billed to several patients.

Recommendation

The Hospitals' computer center personnel should review the system message indicating the start and completion of the midnight census to ensure that processing was completed and record this in the transaction log. A daily reconciliation of room and board charges per the midnight census and room and board charges per the daily balance forward summary should also be performed.

Status of Observation

Effective September 1, 1988, the computer operators are required to review the system's messages and record the start and end times for the Midnight Census on the Computer Log Worksheet daily.

The Business Systems Group, on several occasions, has verified that this is being done since September 1. This results in a double check of the Midnight Census on-line job since the admitting terminal operator is also responsible for the completion of the job. The Hospitals' Admitting Department and Business Office are currently in the process of implementing a reconciliation procedure for the purpose of verifying room and board charges per the Midnight Census and the Daily Balance Forward Report.
13. Pharmacy Inventory

Several test counts of the pharmacy inventory recorded during the physical inventory observation could not be agreed to the inventory compilation or reconciled.

Recommendation

To ensure that the inventory compilation properly reflects physical inventory as input from inventory count sheets, edit listings of physical inventory counts input should be generated which can be cross referenced to sequentially numbered inventory count sheets. Additionally, inventory count sheets should be maintained for a reasonable amount of time and any modifications from the inventory count sheets to the ultimate compilation quantities should be documented and maintained on file.

Status of Observation

The Hospital agrees that a system of cross referencing inventory count sheets to the computer compilation list would be beneficial. The Department of Pharmacy will seek to change the reporting format of the inventory reports to provide a separate computer compilation for each inventory booklet, as well as an overall inventory summary report. This will allow us to track inventory discrepancies to a specific booklet with minimal computer program modifications.

The customary procedure for the Department of Pharmacy is to maintain inventory count sheets for a minimum period of one year. To improve on this, the Department's Document Retention Schedule will be amended to include retaining the inventory count sheets for a 12 month period after the external audit is completed.
14. Network System

From discussions with senior members of the Hospitals' systems staff, the completion and successful implementation of the network systems is dependent upon receiving adequate funding for the continuation of the project. Specifically, in order to interface the departmental computers and capture departmental charges, considerable internal and vendor programming will be required.

Recommendation

We recommend that a detailed analysis of the necessary funding requirements be conducted and that appropriate consideration be given to providing funding to complete the network system.

Status of Observation

It is clearly understood that adequate funding is necessary to support the maintenance and development of any program(s) in any organization; OSUH shares this understanding.

Information Services is presently in the final stages of a 3-year plan that reflects the needs and priorities necessary to support the maintenance of the Hospitals' current Information Services/Systems and the acquisition of new services/systems. The responsibility for system interfaces with outside vendors is clearly specified in any documentation to vendors prior to any selection process; this includes how the interface will be paid for.

The 3-year plan spells out clearly future Hospitals' system priorities, as well as where and when funding is necessary.
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

LETTER OF RECOMMENDATIONS

JUNE 30, 1988
August 12, 1988

Board of Directors
The Ohio State University
Development Fund
Columbus, Ohio

We have examined the financial statements of the Ohio State University Development Fund for the year ended June 30, 1988, and have issued our report thereon dated August 12, 1988. As part of our examination we made a study and evaluation of the Development Fund's system of internal accounting control to the extent we considered necessary in order to meet requirements of generally accepted auditing standards. The purpose of our study and evaluation was to determine the nature, timing, and extent of the auditing procedures necessary for expressing an opinion on the Development Fund's financial statements. Our study and evaluation was more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole.

The management of the Development Fund is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility estimates and judgments by management are required to assess the expected benefits and related costs of control procedures. The objectives of a system are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles.

Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projection of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.
Our study and evaluation of the system of internal accounting control of The Ohio State University Development Fund for the year ended June 30, 1988, which was made for the purpose set forth in the first paragraph, would not necessarily disclose all weaknesses in the system. Our study and evaluation disclosed nothing that we believe to be a material weakness.

However, we did note the item on the following page which we wish to bring to your attention.

The comment noted on the following page was presented previously in our letter dated September 4, 1987.

This report is intended solely for the use of management and should not be used for any other purpose.

Certified Public Accountants
Observation

During our review of The Ohio State University Development Fund's Constitution and By-Laws, we noted that 17% of the total funds solicited by colleges in any calendar year should be retained by the Development Fund. We noted that these amounts were not retained.

Recommendation

Management should consider amending the Constitution and By-Laws to reflect current operations.

Management Response

Management once again recognizes and acknowledges the discrepancies between the Constitution and By-Laws of the Development Fund and current operations. This discrepancy is, and has been, a matter of ongoing discussion among and between Development staff, the University President and the Board of Directors of the Development Fund. It would be our intent to inform all audit agencies immediately upon these discussions coming to a resolution.
WOSU STATIONS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988
October 31, 1988

Mr. Dale Ouzts
General Manager
WOSU Stations
The Ohio State University
Columbus, Ohio

We have examined the financial statements of WOSU Stations for the year ended June 30, 1988, and have issued our report thereon dated October 31, 1988. As part of our examination, we made a study and evaluation of WOSU's system of internal accounting control to the extent we considered necessary to evaluate the system as required by generally accepted auditing standards. The purpose of our study and evaluation was to determine the nature, timing, and extent of the auditing procedures necessary for expressing an opinion on WOSU's financial statements. Our study and evaluation was more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole.

The management of WOSU is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of control procedures. The objectives of a system are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles.

Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projection of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.
Our study and evaluation made for the limited purpose described in the first paragraph would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control of WOSU taken as a whole. Our study and evaluation disclosed no condition that we believed to be a material weakness.

However, we did note the item on the following page which we wish to bring to your attention.

This report is intended solely for the use of management and should not be used for any other purpose.

Touche Ross & Co.

Certified Public Accountants
General

Observation

We understand that WOSU is considering computer application needs for the IBM System 38 computer to automate many of the accounting functions.

Recommendation

We recommend that the following applications and accounting systems be considered to improve accounting efficiencies and to better utilize available resources:

- Broadcast rights additions, write-offs and amortization system
- Program schedule and logs system
- Cash requirements and cash flow analyses system
- Accounts receivable system
- Accounts payable system
- Reconciliations of internal records to FAS programs
- Sales system
- Equipment and property accounting system
- Integrated internal general ledger and financial statements system

Because of the critical issues that must be addressed in the consideration of the systems, e.g., whether to purchase or develop each system, methods of implementation and testing and adequacy of controls, we recommend that WOSU management consider using qualified consultants to assist with the project.

Management Response

The WOSU Stations are in the process of determining system needs for the Business Office. To assist us with this project, we are investigating the use of consultants to address the critical issues associated with computerizing the accounting operations.

In the meantime, the WOSU Stations have been busy developing an internal timekeeping system to track employee sick leave, vacation and compensatory time balances.
October 20, 1988

The Board of Trustees
The Ohio State University
The Ohio State University Housing Commission

We have completed our examination of the financial statements of The Ohio State University Dormitory Revenue Bond Fund and The Ohio State University Housing Commission for the year ending June 30, 1988. As part of our examination, we have performed a study and evaluation of the system of internal accounting control maintained by Residence and Dining Halls. Our study and evaluation of internal accounting control was not a detailed review of the organization's internal accounting control, but was a limited review performed to determine the nature, timing and extent of auditing procedures necessary for expressing an opinion on the financial statements in accordance with generally accepted auditing standards.

A system of internal accounting control is defined by the American Institute of Certified Public Accountants as the plan in an organization and related procedures and records in effect that are concerned with the safeguarding of assets and the reliability of financial records. Management is responsible for maintaining this system of internal accounting control. We recognize, however, that in fulfilling this responsibility, practical considerations are largely the controlling factor in instituting changes in management policies and accounting procedures to improve internal control.

The objective of internal accounting control is to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles. Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projections of any evaluation of the system to future period's is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.

Our study and evaluation made for the limited purpose described in the first paragraph would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control of the Dormitory Revenue Bond Fund or the Housing Commission taken as a whole. However, our study and evaluation disclosed conditions that we believe are material weaknesses in internal accounting control for which corrective action should be taken. Our observations and recommendations concerning such conditions are set forth in the sections below. These conditions were considered in the nature, timing, and extent of our audit test applied in our examination of the June 30, 1988 financial statements.
The preceding comments are made solely in the interest of improving the system of internal accounting controls of The Ohio State University Residence and Dining Halls. Our comment is in no way intended to reflect on the capabilities, honesty or integrity of any of the University's employees.

This report is intended solely for the management of The Ohio State University and the management of the University's Residence and Dining Halls and should not be used for any other purpose.

Sincerely,

Pamco & Co., Inc.
SEPARATION OF DUTIES

During our review, we noted that the accounting clerks in the graduate housing area had incompatible duties. The clerk was responsible for collecting cash, preparing deposits and recording receipts.

We recommend the graduate housing area separate these duties among several people if economically feasible.

Posting Errors And Unrecorded Adjustments

During the year, there were posting errors that were made to the financial statements that were not corrected on a timely basis. One error occurred when collections on delinquent student revenue accounts were incorrectly posted to the bad debt expense account. Another error occurred when a newly created accounts payable account did not properly roll up to the financial statement, causing both the accounts payable and cash accounts to be in error.

In addition to the above noted errors, there were several routine accounting adjustments that should have been recorded during the year, but were not. It is our belief the reason these errors were not corrected and routine adjustments were not recorded was because the Senior Accountant who is responsible for these tasks retired during the year and the position went unfilled.

Because of the structure of the Business Office, the Senior Accountant plays a pivotal role in the accounting process for Residence and Dining Halls. Historically, the senior accounting position was responsible for among other things, reviewing and reconciling general ledger accounts balances and recording required adjusting entries. Having this position vacant has caused certain reviewing and reconciling tasks to go undone. Consequently, an important internal control process is not functioning properly.

Accordingly, it is our recommendation that the review and reconciliation responsibilities of the senior accounting position be delegated to current member(s) of the fiscal staff.

CLOSING COMMENTS

We would like to emphasize that our comments are made for the purpose of outlining areas where internal control could be improved. We recognize that practical considerations are a controlling factor in instituting changes in management policies and accounting procedures to improve internal control. Accordingly, management must weigh the probable additional cost of making any changes against the risks and costs which the present system may involve.
THE OHIO STATE UNIVERSITY

OHIO REVISED CODE COMPLIANCE LETTER

YEAR ENDED JUNE 30, 1988
November 23, 1988

Honorable Thomas E. Ferguson
Auditor of State of Ohio and
The Board of Trustees
The Ohio State University
Columbus, Ohio 43210

We have examined the financial statements of The Ohio State University, for the year ended June 30, 1988, and have issued our report thereon dated November 23, 1988. Our examination was made in accordance with generally accepted auditing standards and the standards for financial and compliance audits contained in the Standards for Audit of Governmental Organizations, Programs, Activities, and Functions, issued by the U.S. General Accounting Office, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

The management of The Ohio State University is responsible for the University's compliance with laws and regulations. In connection with our examination referred to above, we selected and tested transactions and records to determine the University's compliance with laws and regulations, noncompliance with which could have a material effect on the financial statements of the University. We also selected and tested records and transactions to determine the University's compliance with laws and regulations, noncompliance with which, while not material to the combined financial statements, the Auditor of State of Ohio has determined to be significant as a matter of public policy, public stewardship, or public accountability.

The results of our tests indicate that for the items tested, The Ohio State University, complied with those provisions of laws and regulations, noncompliance with which would have a material effect on the financial statements. The results of our tests also indicate that for the items tested, the University has complied with those provisions of laws and regulations that the Auditor of State of Ohio has determined to be significant as a matter of public policy, public stewardship, or public accountability, except as noted in the following pages.
Nothing came to our attention that caused us to believe that for the items not tested The Ohio State University was not in compliance with laws or regulations noncompliance with which could have a material effect on the University's financial statements or noncompliance with which indicates significant violations of public policy, public stewardship, or public accountability.
Section 125.081, Ohio Revised Code, requires the University to set aside contract business for bidding by minority firms. According to Section 125.081, this requirement exists to insure that 15% of the aggregate value of all contracts awarded by the University are awarded to minority businesses. While the University has a program in place for this purpose, only 5.62% of aggregate value of contracts was awarded to minority businesses in fiscal year 1988.

Recommendation

The University should continue to aggressively solicit minority businesses in order to meet the requirement imposed by Section 125.081.

University Response

Respondent: Penny F. O'Neil, Assistant VP, Business Services

We agree. To that end, we have hired a consultant to review our minority set-aside program, and offer recommendations for improvement in our efforts to meet the 15% set-aside goal.

In addition, we are sending copies of all our bids to the State EEO office for dissemination to certified minority vendors throughout Ohio. Through these and other efforts, we hope to make a positive move towards the 15% set-aside goal.

* - Indicates repeat of prior year citation.
2. **Citation**

Section 135.18, Ohio Revised Code, provides that securities which are issued by other than states of the United States are not eligible securities to be pledged as collateral for public monies. The Code also states that securities in default are not eligible to be pledged as collateral for public monies. During our examination, we noted two instances where non-eligible securities were included in the bank's pool of securities held for collateralization.

**Recommendation**

The University should arrange for all securities pledged as collateral for University deposits to be eligible per Section 135.18.

**University Response**

Respondent: Alvin C. Rodack, Associate Treasurer

The Office of the Treasurer quarterly reviews the statistics on the pooled collateral for public monies provided by the depository banks. We will attempt to notify them of any discrepancies with the Ohio Revised Code and request that they correct the situation.
3. Citation

Section 3335.05, Ohio Revised Code, provides that the Treasurer shall give bond to the State for a sum which is not less than the probable amount that will be under his control in any one year. The Treasurer's fidelity bond was set at $3,000,000 in 1981 and has not been increased since that time. This amount is not sufficient to provide the coverage required by the Code.

Recommendation

The Treasurer's bond coverage should be reevaluated based upon the risk of loss defined by this section.

University Response

Respondent: James Roesch, Coordinator, Personnel Services

Bond coverage for the Treasurer ($3 million) has been approved by The Ohio State University Board of Trustees and is well within thresholds used by other major state universities. If $3 million is not sufficient, what amount is? This market is "thin" and the premiums for the higher limits will be very expensive. Should the desired limit be $10, $50 or $100 million, I am not sure that much insurance is available, at any premium. Obviously, we have a trade-off. What does Ohio State feel "comfortable with", how much is available, and at what premium? The answer is and remains $3 million.
Section 3345.29, Ohio Revised Code, provides that the University shall establish an office of contract compliance to monitor all contracts to insure compliance with state and federal law regarding affirmative action. This office shall keep such current records on contractors which have been reviewed and submit an annual report to the General Assembly as part of the University's Capital Plan. The University has established an office of contract compliance, but as of June 30, 1988, the office had not begun functioning in the capacity prescribed by the Code.

Recommendation

The Office of Contract Compliance should monitor all contracts and submit an annual report to the General Assembly as required by Section 3345.29, Ohio Revised Code.

University Response

Respondent: Richard W. Eschliman, Assistant VP, Architect's Office

Our formal plan was submitted to Business and Administration during February, 1989.

We have been monitoring contracts and keeping records and our Compliance Officer coordinates with State offices including EEO. We should be fully operational by June 1, 1989.
Section 124.13, Ohio Revised Code, specifies the vacation leave and holiday pay for all state full-time employees. During our payroll testing, 31 of 45 selections were eligible for vacation accrual. For two of the 31 vacation accruals tested, there was insufficient documentation to support the testing of the accrual balance.

Recommendation

The University should consider implementation of an automated timekeeping system, which would automatically calculate sick and vacation balances, on a University-wide basis.

University Response

Respondent: Madison H. Scott, VP, Personnel Services

The Office of Personnel Services has and continues to consider implementation of a comprehensive automated timekeeping system for all University employees. This consideration will become a higher priority when sufficient resources are available to develop such a system. In the interim, University Systems, with the approval of the Offices of Personnel Services and Internal Audit, has developed a vacation and sick leave tracking system which automatically computes accrual and vacation/sick leave balances. In conjunction with introducing this new system to the various departments, the Office of Personnel Services will continue to stress the importance of maintaining viable vacation and sick leave records.
Section 9.38, Ohio Revised Code, requires public monies received by a department to be deposited with the Treasurer within twenty-four hours. University policy requires that amounts over $200 be deposited within twenty-four hours but amounts less than $200 be deposited on at least a weekly basis. During our detailed testing of departmental deposits, we noted that in 8 out of 30 selections, departments did not make their deposit to the Bursar's office within the time frames as specified by both the ORC and University policy.

Recommendation

Public monies received by departments should be deposited with the Office of Fees and Deposits in accordance with University guidelines.

University Response

Respondent: (1) Alvin C. Rodack, Associate Treasurer

All "public monies" are in fact deposited via a wire transfer from the State to our bank account. All tuition and fees are processed by the Office of Fees and Deposits with daily and sometimes twice daily deposits.

Other public monies received are deposited per our University deposit procedures distributed to these units, i.e., when an accumulation of $200 is reached, but at a minimum weekly.

Respondent: (2) David E. Schuller, Chairperson, Otolaryngology

The delay was due to the person in charge of depositing the checks. It is the policy of the department to follow Section 9.38 of the ORC which requires public monies to be deposited within 24 hours, and this practice will be adhered to in the future.

Respondent: (3) Roy L. Leary, Admin. Manager, Dentistry

We agree that the dental clinic deposits were not made on a timely schedule. The reason for the delay has basically been the result of personnel. We have been operating a four-person office with two and three persons in anticipation of decentralizing the collection of fees with the installation of a new computerized clinical program.

In the meantime, we will deposit all currency the day following receipt. We will need to keep checks for a longer period until balancing is completed. At such time the decentralization takes place, checks will also be deposited the day following receipt.

* Indicates repeat of prior year citation.
Respondent: (4) Mervin E. Muller, Chairperson, Computer & Information Science

We will make every effort to deposit checks in a timely manner. However, the statement "Computer and Information Science did not make their deposit to the Bursar's Office within the time frames as specified by both the ORC and University policy" is correct but is inconsistent with our understanding of written procedures. Furthermore, I understand that during the audit a question was raised about the dates on the checks (all were for November) and we would like to point out that in many cases much time elapses between the writing of the check and the receipt of the check for depositing.

We appreciate the importance of following procedures which are realistic, practical and efficient. The 24-hour limit may be unrealistic to expect if the check is received on a Friday afternoon or before a holiday.


We were unaware of the State and University rules cited. We have instituted the recommended change, i.e. daily deposits of public monies in amounts over $200 and at least weekly deposits of amounts less than that.

Respondent: (6) David T. Mucci, Associate Director, Student Unions

The factors that impacted on that situation were: (a) a small office staff; (b) a restriction in the number of individuals handling cash; and (c) illness affecting the two individuals making the deposit. Despite these factors, it is clear deposits in excess of $200 must be made within 24 hours of receipt. First and foremost, the deposits need to be a priority in the office. We propose the following solutions: (1) Training of the Drake Union Manager to make such deposits in the absence of his staff; and (2) Provision of Ohio Union accounting staff to handle such deposits in the absence of trained Drake Union staff.

Respondent: (7) John M. Ellinger, Asst. VP, Agricultural Admin.

We can only assume that this involves daily deposits that are picked up at the zone pickup twice a week, Tuesday and Friday. With the Meat Lab in operation, receipts are more than $200 but deposits are prepared daily and sent to zone pickup in order to correct this problem.

Respondent: (8) C.W. Brunson, Director, Traffic and Parking

Our deposits are no longer made to Fees and Deposits; instead, they are made directly to the bank via Metropolitan Armored Car, usually within a period of less than 24 hours.

* - Indicates repeat of prior year citation.
*6. **Citation - (Continued)**

Respondent: (9) A.J.R. VanBuren, Asst. VP, Business Management

We agree. The Department of Reprographics' policy regarding deposits is in accordance with University guidelines. Appropriate counseling or disciplinary action is taken if an employee is found to deviate from this policy.

* - Indicates repeat of prior year citation.
Section 3345.17, Ohio Revised Code, provides that all property purchased by the University for its use or benefit is exempt from state sales tax. Per review of internal audit reports on accounting controls over petty cash, we noted that state sales tax was paid in several instances where petty cash funds were used.

Recommendation

The University should enforce the procedures it has already established to fully utilize the state sales tax exemption.

University Response

Respondent: Alvin C. Rodack, Associate Treasurer

The Office of the Treasurer has repeatedly emphasized to departments, and it is clearly published in their procedures, that they should not pay state sales tax when making petty cash purchases. We will continue to reemphasize to departments having petty cash funds that the University is exempt from state sales tax.
Sections 3335.13 and 3345.16, Ohio Revised Code, provide that title for all lands for the use of The Ohio State University shall be made in fee simple to the State. In addition, the sections provide that properties purchased by the Board of Trustees as investments and held as part of the University's endowment portfolio shall be held in trust by the Board. We noted that the Board of Trustees currently holds title to certain properties which are not in the University's endowment portfolio and therefore should have been titled to the State. In addition, we noted one property in the University's endowment portfolio which was improperly titled to the State instead of the Board of Trustees.

Recommendation

The University should consult with the Office of the Attorney General to resolve this issue.

University Response

Respondent: Thomas Andres, Manager, Property Management

Parcels of land titled to the Board of Trustees and not included in the University Endowment portfolio are now part of the "Quasi endowment portfolio" (QEP). QEP includes real estate gifted to the University with instructions to sell and proceeds used to support current programs. It also includes all other property titled to the Board and not part of the Endowment portfolio, regardless of funding source.

The VA Clinic building is held in the Endowment portfolio. The underlying real estate is titled to the State of Ohio and is not part of the Endowment.

Lane Manor Apartments is titled to the Board of Trustees but is part of Housing Commission. It, therefore, should not be part of the Endowment.

We will continue to seek advice from appropriate University officials and the office of Attorney General when necessary.
*9. Citation

Section 149.34, Ohio Revised Code, provides that the University shall submit record retention schedules to the State Records Administrator. The University has approximately 760 reporting units, each of which is required to prepare and submit retention schedules. As of June 30, 1988, approximately 280 reporting units had not prepared retention schedules.

Recommendation

The University should complete its record retention schedules.

University Response

Respondent: Raimund E. Goerler, University Archivist

The citation is substantially correct. As in previous years, it must be stated that records scheduling is a gradual and continuous process, in which the University continues to make progress toward the goal of comprehensive scheduling for the entire institution.

Twice each year the Archives has notified all departments of the University of the policies of Ohio State and the laws of the State concerning inactive records. The Archives depends greatly on the cooperation of the departments who will have responsibility for implementing the schedules in their own offices to initiate the contact.

A major problem continues to be the absence of a general schedule for the disposition of personnel records common to many offices.

* - Indicates repeat of prior year citation.
10. Citation

Section 3345.031, Ohio Revised Code, requires that the Board of Trustees of each state institution of higher education file an annual budget plan and quarterly budget progress reports with the Ohio Board of Regents and the Legislative Budget Office of the Legislative Budget Commission. Per the Ohio Board of Regents, the University did not submit all required quarterly budget progress reports.

Recommendation

The University should submit all quarterly budget progress reports with the Ohio Board of Regents and the Legislative Budget Office as required by the Code.

University Response

Respondent: Neal Milnor, Asst. VP, University Budget Planning

The failure to submit all required quarterly reports was due to a one-time problem created by the temporary loss of certain computer files at University Systems. We will continue to submit quarterly reports in the future.
APPENDIX XXXI

SUMMARY OF REPORT ON AFFIRMATIVE ACTION

Presented to the Academic Affairs Committee
(See page 831)
Summary of Barbara Newman's comments on the Action Plan for the Recruitment and Retention of Black Students

Ohio and the rest of the nation face critical and urgent problems regarding the participation of minorities, especially Blacks and Hispanics, in higher education. The Ohio State University has taken a bold, comprehensive approach to addressing this problem through its Action Plan for the Recruitment and Retention of Black Students. It is important to keep in mind that the steps we take in this arena effect not only our own University community, but they serve as a model for colleges and universities throughout Ohio and across the nation.

The first year of the Action Plan has resulted in significant achievements in student recruitment and retention, as well as faculty recruitment. What is even more hopeful is that so many individuals and groups on campus have woven the goals of this plan into their own agendas. The climate of the campus is evolving toward one that more fully recognizes racial and ethnic pluralism as a key ingredient of excellence.

Summary of James Bishop's comments on the Young Scholars Program

The Committee received a detailed report from Dr. James J. Bishop, Special Assistant to the Provost, about the first year of the Young Scholars Program, the University's key effort for increasing the numbers of low-income Black, Hispanic, Appalachian and other under-represented students. In 1988, 201 sixth graders from eight Ohio public school districts became Scholars. Of these, 195 of these came to the program's Summer Institute and spent two exciting, challenging and memorable weeks studying and living as college students. To continue its progress, teachers and officials of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Lorain, Toledo and Youngstown are selecting an additional 400 sixth graders. With increased staff, the program will be able to recruit and train the needed mentors for these Scholars and to conduct in future years the full range of supports and activities promised by the University to these Scholars. Also, the Development Office and the Office
of Academic Affairs have mounted an intensive fundraising effort to fund the Young Scholars Program. The general public's response to the objectives and activities of the Young Scholars Program has been uniformly positive. Increasing numbers of colleges and universities recognize the need for increasing the pool of college-bound minority students and are seeking information about Ohio State's efforts.

Dr. Bishop invited members of the Trustees to become involved in this satisfying and vital component of the University's Action Plan.

Summary of Sue Blanshan's comments on the University Senate Committee on Women and Minorities 1989 Report

The Committee on Women and Minorities has played an increasingly important role in our affirmative action program at Ohio State. In this role the committee has: (1) made useful policy and action recommendations to Academic Affairs on faculty recruitment and retention, (2) consistently ties the principles of affirmative action and academic excellence together, (3) awarded approximately one and a quarter million dollars in affirmative action grants, and (4) awarded thirty-one Distinguished Affirmative Action Awards.
Page 1022 is blank
APPENDIX XXXII

A COPY OF ONE OF THE SIGNED LETTERS FROM STUDENTS REGARDING CONCERN FOR THE PROPOSED TUITION INCREASE

Presented to the Student Affairs Committee
(See page 859)
Dear Trustee,

As a student at The Ohio State University, I am very concerned about the proposed tuition increase. If fees increase twenty to forty percent, or if they only increase ten percent, and continue to do so over the next five or six years, Ohio State will soon become too expensive for many students to attend. Some students will be able to afford a tuition increase, but it will intensify the pressures that they and their families already struggle with in order to earn a college education.

I am aware that the proposed tuition increase is due in part to state budget cuts. However I have also noted that tuition at Ohio State increases even when the the State of Ohio has increased the money allocated to higher education. It is obvious to me that Ohio Legislators need to reconsider their budget, but it is also obvious that Ohio State needs to take steps as well.

I am asking that the administration of Ohio State make a priority of keeping tuition down. I am asking you to do everything possible to ensure that Ohio State remains affordable.

Sincerely,
APPENDIX XXXIII

THE OHIO STATE UNIVERSITY COLLEGE OF AGRICULTURE
INTERNATIONAL PROGRAMS UPDATE

Presented to the Agricultural Affairs Committee
(See page 861)
The College of Agriculture
International Programs Update

Historical

The College of Agriculture provides leadership to Ohio State University's participation in externally funded international programs. Our annual expenditure of funds for this program is currently over $3,000,000/year and growing.

The College initiated this activity at the request of the U.S. Department of State during the 1950's and 1960's with programs in India and Brazil. In the 1970's we participated in programs in Uganda and Somalia. In the 1980's we established programs in Uganda, Burma and the Dominican Republic. We also initiated a major program in rural financial markets in developing countries in the 1960's, and have since worked in over 15 countries in Asia, Africa, and Latin America.

These programs involved training of foreign scientists and academics and long-term residence of our faculty in these countries. In addition, we have trained hundreds of foreign scientists in agriculture, most of whom were not affiliated with these programs. We have also provided opportunities for our students to intern with agribusinesses in Northern Europe and Australia, and have placed foreign youngsters on farms and agribusinesses throughout the United States.

Funding for the programs and graduate student training was provided by the U.S. Agency for International Development, our major bilateral development assistance program, and from other multilateral international donors.

Rationale

Trade deficits and the ability of U.S. industries to compete successfully with foreign producers are daily news items. We are part of a global economy and must educate our new generations to participate in it. This implies equipping young people with foreign language skills and making them familiar with other cultures. Today, provision of this education is an integral part of the land grant university mission. Programs such as those described above provide opportunities to expose our faculty and graduate students to international agriculture and to other cultures. Ties established with foreign educational institutions through these programs are used to establish opportunities for our students to study abroad. Foreign students enrich and broaden the learning environment of students on the OSU campus.

Priorities

We seek to broaden the learning experience of undergraduates in the College of Agriculture with study abroad opportunities
which enhance foreign language skills and appreciation of other cultures. This activity is coordinated with parallel efforts by the OSU Central Administration and other professional colleges. We invite them to use our contacts to develop parallel activities in these countries.

We encourage our faculty to undertake significant overseas, cross-cultural experiences as integral to their professional growth. These experiences involve applied research, technical assistance and/or teaching in cross-cultural settings. All activities are designed directly to integrate them into international networks of scientists, and indirectly to expose them to cutting edge science and technology. This new knowledge is used to enhance their instructional, research and outreach programs in Ohio.

**Current Programs**

(a) **Uganda** - We have recently signed a $10,100,000 5 year extension to a major Agency for International Development funded project designed to rehabilitate the national agricultural research system in Uganda. Major implementing agencies on the Ugandan side are Makerere University and the Ministry of Agriculture.

(b) **Dominican Republic** - We recently provided leadership in the design of a 7 year $11,800,000 project to be funded by the Agency for International Development. This project was awarded to the Midwest Universities Consortium for International Activities (MUCIA). It will strengthen the academic and research programs of the Superior Institute of Agriculture. We anticipate keeping the lead on the implementation phase of this project.

(c) **Burma** - We have worked in Burma since 1981, primarily to strengthen their national agricultural research system through technical assistance and training of graduate students. This project activity was also funded by the U.S. Agency for International Development. Our current project ($3,800,000) may be prematurely terminated because of a U.S. State Department decision to withdraw U.S. assistance to protest recent human rights violations and the persistence of a military government.

(d) **Swaziland** - We are in the process of signing a $100,000 linkage grant with the U.S. Agency for International Development to strengthen ties between the Faculty of Agriculture of the University of Swaziland and the OSU College of Agriculture. This grant will finance exchange of faculty and graduate students.
Program Support Grant - We receive an annual grant from AID of from $125,000-150,000 to strengthen the ability of our faculty provide assistance to the above projects. This grant is part of a Joint Memorandum of Understanding between OSU and Fort Valley State College (a minority land grant institution) in Georgia, and is used to promote joint activities with this institution. Specific activities supported with this grant include faculty travel abroad and faculty and graduate student overseas research.

International Agricultural Intern Program - Under this program we annually place from 120 to 150 European young men and women on farms and in agribusinesses in Ohio and in other States. Many of them also take courses at OSU. We also place OSU students in similar work situations in Northern European countries and Australia. This program was initiated in 1981 and has no projected termination date.

Peace Corps - The OSU Peace Corps recruiter is located in our Office. The Peace Corps contracts with us for this service to the campus and for the midwestern region of Ohio.
APPENDIX XXXIV

SCOTT HALL REMODELING AND
OHIO STADIUM - REHABILITATION OF THE EXTERIOR CONCRETE

Adopted by the Board of Trustees April 7, 1989
(See page 902)
SCOTT HALL REMODELING - PHASE I

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
OHIO STADIUM - REHABILITATION OF THE EXTERIOR CONCRETE

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
Page 1032 is blank
APPENDIX XXXV

GOLF COURSE IRRIGATION SYSTEM
BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS
UNIVERSITY AIRPORT RENOVATIONS 1988/1989
PRESSEY HALL REMODELING - PHASE I
NORTHWEST UTILITIES PHASE I - STORM AND SANITARY SEWERS
OARDC SUPPORT FACILITIES - BARN REPLACEMENT
NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION I

Adopted by the Board of Trustees April 7, 1989
(See page 910)
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

GOLF COURSE IRRIGATION SYSTEM

Description: This project provides for the installation of a computer lined weather station to monitor and control the duration and watering sequences at the Golf Course, modernization of existing pump controls, repairs to existing cash iron mains and replacement of all galvanized pipe with PVC lines.

<table>
<thead>
<tr>
<th></th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>$825,000</td>
<td>$828,994</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$825,000</td>
<td>$828,994</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$825,000</td>
<td>$828,994</td>
</tr>
<tr>
<td>TOTAL ALL CONTRACTS</td>
<td>$825,000</td>
<td>$828,994</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td>$887,750</td>
<td></td>
</tr>
</tbody>
</table>

Funding: University Athletic Department Funds

Plans and Specifications - 5/6/88
Report of Award of Contracts - 4/7/89
April 7, 1989

TABULATION OF BIDS

GOLF COURSE IRRIGATION SYSTEM

<table>
<thead>
<tr>
<th>Bids Received</th>
<th>Date Received</th>
<th>Opened By</th>
<th>Tabulated By</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University</td>
<td>December 21, 1988</td>
<td>Tamara Bell</td>
<td>Michael Whitehad</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GENERAL CONTRACT</th>
<th>BASE BID</th>
<th>ALT G-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate of Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$826,994.00</td>
<td>-120,000.00</td>
<td></td>
</tr>
</tbody>
</table>

* Hilltop Glen Golf  $825,000.00  +$ .00
K & P Supply        889,500.00   -25,000.00
Ohio Irrigation     891,000.00   -30,000.00

<table>
<thead>
<tr>
<th>GENERAL CONTRACT (Cont)</th>
<th>ALT G-2</th>
<th>ALT G-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate of Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+ $53,000.00</td>
<td>+ $6,000.00</td>
<td></td>
</tr>
</tbody>
</table>

* Hilltop Glen Golf  +50,000.00   +10,000.00
K & P Supply        +23,100.00   +10,000.00
Ohio Irrigation     +42,100.00   +13,000.00

<table>
<thead>
<tr>
<th>GENERAL CONTRACT (Cont)</th>
<th>ALT G-4</th>
<th>ALT G-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate of Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+ $6,000.00</td>
<td>+ $500.00</td>
<td></td>
</tr>
</tbody>
</table>

* Hilltop Glen Golf  +10,000.00   +90,000.00
K & P Supply        +1,000.00   +62,700.00
Ohio Irrigation     +16,200.00   +105,000.00

<table>
<thead>
<tr>
<th>GENERAL CONTRACT (Cont)</th>
<th>ALT G-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate of Cost</td>
<td></td>
</tr>
<tr>
<td>+ $96,000.00</td>
<td></td>
</tr>
</tbody>
</table>

* Hilltop Glen Golf  +10,000.00
K & P Supply        +18,000.00
Ohio Irrigation     +30,000.00

* Contract awarded to this bidder.
GOLF COURSE - IRRIGATION SYSTEM

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
April 7, 1989

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS

Description: This project renovates 3,900 square feet of the lower level of Rightmire Hall to provide for 14 growth chambers (five existing and nine new) and a plant tissue culture controlled environmental room. Major upgrading of the building's electrical system is required due to the heavy electrical demands of this equipment. A separate cooling system is required to maintain the close tolerance environments required within the growth chambers and the plant tissue culture rooms. An emergency generator is to be installed to maintain the controlled environment of these chambers in case of a power outage.

The project also includes removal of existing asbestos pipe insulation. Construction is scheduled to begin January, 1989 and be completed June, 1989.

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>$65,000</td>
<td>$90,000</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$65,000</td>
<td>$90,000</td>
</tr>
<tr>
<td>Plumbing Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$36,220</td>
<td>$45,000</td>
</tr>
<tr>
<td>Substitute - Air turret</td>
<td>+75</td>
<td></td>
</tr>
<tr>
<td>Substitute - Gas turret</td>
<td>+75</td>
<td></td>
</tr>
<tr>
<td>Substitute - D.I. ledge faucets</td>
<td>+720</td>
<td></td>
</tr>
<tr>
<td>Substitute - Hub drain line</td>
<td>+500</td>
<td></td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$37,590</td>
<td>$45,000</td>
</tr>
<tr>
<td>HVAC Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$68,780</td>
<td>$75,000</td>
</tr>
<tr>
<td>Alt. H-1 (Extend 3/4&quot; HPS line)</td>
<td>+3,900</td>
<td>$2,500</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$72,680</td>
<td>$77,500</td>
</tr>
<tr>
<td>Electric Contract</td>
<td>Low Bid</td>
<td>Estimate of Cost</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------</td>
<td>------------------</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$143,400</td>
<td>$153,000</td>
</tr>
<tr>
<td>Alt. E-2 (Growth chamber alarm system)</td>
<td>+2,100</td>
<td>+3,500</td>
</tr>
<tr>
<td>Alt. E-3 (Fire alarm system)</td>
<td>+1,900</td>
<td>+1,600</td>
</tr>
<tr>
<td>Alt. E-4 (Autoclave wiring and connections)</td>
<td>+380</td>
<td>+750</td>
</tr>
<tr>
<td>Alt. E-5 (Receptacles)</td>
<td>+840</td>
<td>+1,200</td>
</tr>
<tr>
<td><strong>Total Electric Contract</strong></td>
<td>$148,620</td>
<td>$160,050</td>
</tr>
<tr>
<td><strong>TOTAL ALL CONTRACTS</strong></td>
<td>$323,890</td>
<td>$370,050</td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST</strong></td>
<td>$660,980</td>
<td></td>
</tr>
</tbody>
</table>

Funding: University Funds

Plans and Specifications - 3/4/88
Report of Award of Contracts - 4/7/89
**TABULATION OF BIDS**

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS**

Bids Received: The Ohio State University  
Date Received: August 16, 1988 and November 17, 1988  
Opened By: Tamara Bell  
Tabulated By: Charles Hamilton

### GENERAL CONTRACT

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Gutknecht Construction</td>
<td>$65,000.00</td>
</tr>
<tr>
<td>Ed Ross Construction</td>
<td>72,870.00</td>
</tr>
<tr>
<td>J &amp; M Bennett Co.</td>
<td>75,400.00</td>
</tr>
<tr>
<td>C. W. Construction</td>
<td>87,900.00</td>
</tr>
<tr>
<td>Waller &amp; Lund</td>
<td>92,680.00</td>
</tr>
<tr>
<td>Mid State Builders</td>
<td>93,500.00</td>
</tr>
</tbody>
</table>

### PLUMBING CONTRACT

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* C. W. Construction</td>
<td>$36,220.00</td>
</tr>
<tr>
<td>Farber Corp.</td>
<td>44,500.00</td>
</tr>
<tr>
<td>Diewald &amp; Pope</td>
<td>46,083.00</td>
</tr>
<tr>
<td>Marco Plumbing</td>
<td>51,370.00</td>
</tr>
</tbody>
</table>

### HVAC CONTRACT

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Project Systems Mechanical</td>
<td>$68,780.00</td>
</tr>
<tr>
<td>C. R. Legner</td>
<td>84,250.00</td>
</tr>
<tr>
<td>Farber Corp.</td>
<td>99,800.00</td>
</tr>
</tbody>
</table>

### ELECTRIC CONTRACT

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Jess Howard Electric</td>
<td>$143,400.00</td>
</tr>
<tr>
<td>Demos Electric</td>
<td>152,000.00</td>
</tr>
<tr>
<td>Buckeye Electric</td>
<td>166,000.00</td>
</tr>
<tr>
<td>Electric Power</td>
<td>203,900.00</td>
</tr>
</tbody>
</table>

### ELECTRIC CONTRACT (Cont)

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Jess Howard Electric</td>
<td>+$1,900.00</td>
</tr>
<tr>
<td>Demos Electric</td>
<td>+$1,900.00</td>
</tr>
<tr>
<td>Buckeye Electric</td>
<td>+$1,786.00</td>
</tr>
<tr>
<td>Electric Power</td>
<td>+$2,730.00</td>
</tr>
</tbody>
</table>
April 7, 1989

TABULATION OF BIDS (Cont)

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (Cont)

<table>
<thead>
<tr>
<th>ELECTRIC CONTRACT (Cont)</th>
<th>ALT E-5</th>
<th>ALT E-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate of Cost</td>
<td>+$1,200.00</td>
<td>+$10,000.00</td>
</tr>
</tbody>
</table>

* Contracts awarded to these bidders including Alternates H-1, E-2, E-3, E-4, and E-5.

* Jess Howard Electric  
  +$840.00

Demos Electric  
  +$1,980.00

Buckeye Electric  
  +$1,067.00

Electric Power  
  +$2,930.00

* Contracts awarded to these bidders including Alternates H-1, E-2, E-3, E-4, and E-5.
BIOTECHNOLOGY CENTER RIGHTMIRE HALL
GROWTH CHAMBERS

CARMACK ROAD
SCOTT HALL

RIGHTMIRE HALL
CARMACK ROAD

WOODY HAYES DRIVE
KENNY ROAD

PARKING

JESSE OWENS
WEST RECREATION CENTER

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

UNIVERSITY AIRPORT RENOVATIONS 1988/1989

Description: This project provides for the upgrading of taxiway guidance and hold signs, repairing Runway 9L-27-R and overlaying same with asphalt, and constructing asphalt apron between hangars 4 and 9 for aircraft parking and taxiing.

<table>
<thead>
<tr>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$226,675.98</td>
</tr>
<tr>
<td>Alt. G-1 (Additional 1/2&quot; bituminous surface)</td>
<td>+23,088.80</td>
</tr>
<tr>
<td>Alt. G-3 (Bermin)</td>
<td>+4,443.75</td>
</tr>
<tr>
<td>Alt. G-4 (Seeding)</td>
<td>+1,929.60</td>
</tr>
<tr>
<td>Alt. G-5 (Painting)</td>
<td>+3,257.10</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$259,395.23</td>
</tr>
</tbody>
</table>

Electric Contract

<table>
<thead>
<tr>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$37,750.00</td>
</tr>
<tr>
<td>Alt. E-1 (Guidance signs Runway 9R)</td>
<td>+3,080.00</td>
</tr>
<tr>
<td>Alt. E-2 (Guidance signs Runway 9-L)</td>
<td>+1,800.00</td>
</tr>
<tr>
<td>Alt. E-3 (Helicopter hold signs)</td>
<td>+7,120.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$49,750.00</td>
</tr>
</tbody>
</table>

TOTAL ALL CONTRACTS | $304,145.23 | $389,608.00 |

TOTAL PROJECT COST | $391,111.00 |

Funding: FAA Grant and University Funds

Plans and Specifications - 7/8/88
Report of Award of Contracts - 4/7/89
### TABULATION OF BIDS

**UNIVERSITY AIRPORT RENOVATIONS 1988/1989**

<table>
<thead>
<tr>
<th>Bid Details</th>
<th>Base Bid</th>
<th>Alt G-1</th>
<th>Alt G-2</th>
<th>Alt G-3</th>
<th>Alt G-4</th>
<th>Alt G-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>$239,313.00</td>
<td>$226,675.98</td>
<td>+$32,984.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Columbus Asphalt Paving</td>
<td>+$17,841.00</td>
<td>+$4,443.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decker Constr.</td>
<td>+$13,950.30</td>
<td>+$4,266.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Ohio Paving</td>
<td>+$13,919.20</td>
<td>+$7,821.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miller Paving</td>
<td>+$14,420.50</td>
<td>+$4,443.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strawser Paving</td>
<td>+$14,007.60</td>
<td>+$6,621.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shelly &amp; Sands</td>
<td>+$14,931.54</td>
<td>+$4,514.85</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heffner Constr.</td>
<td>+$15,003.50</td>
<td>+$3,555.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S. E. Johnson</td>
<td>+$17,004.65</td>
<td>+$3,555.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Contract (Cont)</td>
<td>$35,322.00</td>
<td>$37,750.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Scioto Electric</td>
<td>+$3,080.00</td>
<td>+$3,080.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jess Howard Electric</td>
<td>+$4,097.20</td>
<td>+$4,097.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELECTRIC CONTRACT (Cont)</td>
<td>ALT E-2</td>
<td>ALT E-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimate of Cost</td>
<td>$1,688.00</td>
<td>$6,944.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Scioto Electric</td>
<td>$1,800.00</td>
<td>$7,120.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jess Howard Electric</td>
<td>$2,048.00</td>
<td>$7,688.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Contracts awarded to these bidders including Alternates G-1, G-3, G-4, G-5, E-1, E-2 and E-3.
UNIVERSITY AIRPORT RENOVATIONS
1988 - 1989

SAWMILL ROAD

- SWINE EVALUATION
- SHEEP BARN
- HAY STORAGE
- AERO LAB
- WORLINGTON INDUSTRIES HANGAR
- MAIN HANGAR
- APRON
- HANGARS
- CORPORATE HANGAR
- TOWER

SAWMILL ROAD CENTER

- HORSE BARN
- CALF DEVELOPMENT

CASE ROAD

- DON SCOTT FIELD
- RUNWAYS

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
April 7, 1989

REPORT OF AWARD OF CONTRACTS (Cont)

PRESSEY HALL REMODELING - PHASE I

Description: This project provides for the remodeling of selected spaces in Pressey Hall to provide administrative support space, faculty and staff offices, teaching and research laboratories and a Speech, Language and Hearing Clinic for the Department of Communications, College of Social and Behavioral Sciences.

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$548,780.00</td>
<td>$518,300.00</td>
</tr>
<tr>
<td>Alt. G-1 (Acoustical wall panels)</td>
<td>+18,900.00</td>
<td>+22,320.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$567,680.00</td>
<td>$540,620.00</td>
</tr>
<tr>
<td>Plumbing Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$34,875.00</td>
<td>$23,100.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$34,875.00</td>
<td>$23,100.00</td>
</tr>
<tr>
<td>HVAC Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$204,198.00</td>
<td>$185,640.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$204,198.00</td>
<td>$185,640.00</td>
</tr>
<tr>
<td>Electric Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$194,500.00</td>
<td>$177,360.00</td>
</tr>
<tr>
<td>Alt. E-1 (New Fluorescent fixtures)</td>
<td>+4,220.00</td>
<td>+11,020.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$198,720.00</td>
<td>$188,380.00</td>
</tr>
<tr>
<td>TOTAL ALL CONTRACTS</td>
<td>$1,005,473.00</td>
<td>$937,740.00</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td>$1,230,212.00</td>
<td></td>
</tr>
</tbody>
</table>

Funding: House Bill 870, House Bill 810 and University Funds

Plans and Specifications - 2/7/86
Report of Award of Contracts - 4/7/89
The Ohio State University
Board of Trustees

April 7, 1989

TABULATION OF BIDS

PRESSEY HALL REMODELING PHASE I

Bids Received: Division of Public Works
Date Received: October 6, 1988
Opened By: Janet Sutton
Tabulated By: R. Nash

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Base Bid</th>
<th>ALT G-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL CONTRACT</td>
<td>$518,300.00</td>
<td>+$22,320.00</td>
</tr>
<tr>
<td>* CWC/ABC, A Joint</td>
<td>$548,780.00</td>
<td>+$18,900.00</td>
</tr>
<tr>
<td>Concept Construction</td>
<td>618,000.00</td>
<td>+16,400.00</td>
</tr>
<tr>
<td>Williamson Builders</td>
<td>667,612.00</td>
<td>+18,086.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GENERAL CONTRACT (Cont)</th>
<th>ALT G-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>* CWC/ABC, A Joint Vent</td>
<td>+$5,110.00</td>
</tr>
<tr>
<td>Concept Construction</td>
<td>+5,300.00</td>
</tr>
<tr>
<td>Williamson Builders</td>
<td>+4,840.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PLUMBING CONTRACT</th>
<th>Base Bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Edmonds Mechanical</td>
<td>$34,875.00</td>
</tr>
<tr>
<td>S.A. Comunale/D.E.</td>
<td>47,554.00</td>
</tr>
<tr>
<td>Mandeville/Marco (AJV)</td>
<td>49,023.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC CONTRACT</th>
<th>Base Bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Edmonds Mechanical</td>
<td>$204,198.00</td>
</tr>
<tr>
<td>Mandeville/Marco (AJV)</td>
<td>233,390.00</td>
</tr>
<tr>
<td>S.A. Comunale/D.E. Mech (AJV)</td>
<td>268,000.00</td>
</tr>
<tr>
<td>Wayne/J.A. Guy (AJV)</td>
<td>277,300.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTRIC CONTRACT</th>
<th>Base Bid</th>
<th>ALT E-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Smith &amp; Bruce</td>
<td>$194,500.00</td>
<td>+$4,220.00</td>
</tr>
<tr>
<td>Advantage Electric</td>
<td>224,910.00</td>
<td>+11,500.00</td>
</tr>
<tr>
<td>CWC/ABC (AJV)</td>
<td>240,000.00</td>
<td>+15,790.00</td>
</tr>
<tr>
<td>Avant/Romanoff (AJV)</td>
<td>286,100.00</td>
<td>+16,525.00</td>
</tr>
</tbody>
</table>
The Ohio State University
Board of Trustees

April 7, 1989

TABULATION OF BIDS (Cont)

PRESSEY HALL REMODELING PHASE I (Cont)

<table>
<thead>
<tr>
<th>ELECTRIC CONTRACT (Cont)</th>
<th>ALT E-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate of Cost</td>
<td>+$17,980.00</td>
</tr>
</tbody>
</table>

* Smith & Bruce          +$8,200.00
Advantage Electric       +23,450.00
CWC/ABC (AJV)            +29,500.00
Avant/Romanoff (AJV)     +32,690.00

* Contracts awarded to these bidders including Alternates G-1 and E-1.
PRESSEY HALL REMODELING - PHASE I

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
April 7, 1989

REPORT OF AWARD OF CONTRACTS (Cont)

NORTHWEST UTILITIES PHASE I
STORM AND SANITARY SEWERS

Description: This project provides for the installation of a new storm and sanitary sewer line to replace the existing antiquated septic system serving the Athletic Maintenance Building, Poultry Science complex, Dakan Hall, and Brooding and Breeding Houses.

<table>
<thead>
<tr>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$712,730.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$712,730.00</td>
</tr>
<tr>
<td>TOTAL ALL CONTRACTS</td>
<td>$712,730.00</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td>$829,425.00</td>
</tr>
</tbody>
</table>

Funding: University Bonds and Senate Bill 386 Utilities and Renovation

Plans and Specifications -
Report of Award of Contracts - 4/7/89
TABULATION OF BIDS

NORTHWEST UTILITIES PHASE I
STORM AND SANITARY SEWERS

Bids Received: - The Ohio State University
Date Received: - January 31, 1989
Opened By: - Tamara Bell
Tabulated By: - Peter Tettoni

GENERAL CONTRACT
Estimate of Cost

<table>
<thead>
<tr>
<th>Contractor</th>
<th>BASE BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Righter Company</td>
<td>$712,730.00</td>
</tr>
<tr>
<td>Gemini Constr.</td>
<td>768,723.00</td>
</tr>
<tr>
<td>Danbert Inc.</td>
<td>798,473.00</td>
</tr>
<tr>
<td>Savko &amp; Sons</td>
<td>806,296.00</td>
</tr>
<tr>
<td>Concrete Constr.</td>
<td>808,486.00</td>
</tr>
<tr>
<td>George Igel Co.</td>
<td>819,000.00</td>
</tr>
<tr>
<td>Complete Constr.</td>
<td>857,176.00</td>
</tr>
<tr>
<td>Kenny Willburn Constr.</td>
<td>862,317.08</td>
</tr>
<tr>
<td>Kokosing Constr.</td>
<td>868,703.00</td>
</tr>
<tr>
<td>Jack Conie &amp; Sons</td>
<td>951,894.60</td>
</tr>
<tr>
<td>Walter Jones</td>
<td>953,953.00</td>
</tr>
</tbody>
</table>

* Contract awarded to this bidder.
NORTHWEST UTILITIES PHASE I
STORM AND SANITARY SEWERS

WOODY HAYES ATHLETIC FACILITY

EXISTING SANITARY SEWER

PROPOSED SANITARY SEWER

BIGGS ATHLETIC FACILITY

EXISTING STORM SEWER

SERVICE DRIVE

BUILDING

PROPOSED STORM SEWER

EXISTING BUILDINGS

WILL BE DEMOLISHED

CITY SANITARY SEWER

PROPOSED SANITARY SEWER

POULTRY SCIENCE

LANE AVENUE

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

OARDC SUPPORT FACILITIES - BARN REPLACEMENT
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

Description: This project involves the replacement of a two-story bank barn, attached sheds, and contents lost in a barn fire at OARDC property in Wooster, Ohio, in November, 1985.

<table>
<thead>
<tr>
<th></th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$117,500.00</td>
<td>$127,550.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$117,500.00</td>
<td>$127,550.00</td>
</tr>
<tr>
<td>Electric Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$14,546.00</td>
<td>$19,020.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$14,546.00</td>
<td>$19,020.00</td>
</tr>
<tr>
<td>TOTAL ALL CONTRACTS</td>
<td>$132,046.00</td>
<td>$146,570.00</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td>$158,250.00</td>
<td></td>
</tr>
</tbody>
</table>

Funding: University Funds

Plans and Specifications - 7/11/86
Report of Award of Contracts - 4/7/89
**TABULATION OF BIDS**

**OARDC SUPPORT FACILITIES - BARN REPLACEMENT**
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER (Cont)

<table>
<thead>
<tr>
<th>Bids Received</th>
<th>- The Ohio State University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Received</td>
<td>- March 2, 1989</td>
</tr>
<tr>
<td>Opened By;</td>
<td>- Tamara Bell</td>
</tr>
<tr>
<td>Tabulated By;</td>
<td>- John Frazier</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GENERAL CONTRACT</th>
<th>BASE BID</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Finnagan Construction</td>
<td>$117,500.00</td>
<td></td>
</tr>
<tr>
<td>Dawkins General Contr.</td>
<td>123,535.00</td>
<td></td>
</tr>
<tr>
<td>All Ohio Buildings</td>
<td>124,474.00</td>
<td></td>
</tr>
<tr>
<td>Stanley Miller</td>
<td>140,238.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTRIC CONTRACT</th>
<th>BASE BID</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Wooster Electric</td>
<td>$14,546.00</td>
<td></td>
</tr>
<tr>
<td>Buchman's Electric</td>
<td>15,300.00</td>
<td></td>
</tr>
<tr>
<td>Abbott Electric</td>
<td>15,375.00</td>
<td></td>
</tr>
<tr>
<td>Charnan Electric</td>
<td>15,820.00</td>
<td></td>
</tr>
<tr>
<td>Madison Electric</td>
<td>18,600.00</td>
<td></td>
</tr>
<tr>
<td>Power National Corp.</td>
<td>19,443.00</td>
<td></td>
</tr>
<tr>
<td>Stanley Miller</td>
<td>25,000.00</td>
<td></td>
</tr>
</tbody>
</table>

* Contracts awarded to these bidders.
OARDC SUPPORT FACILITIES
BARN REPLACEMENT

PROPOSED SHEEP BARN

BEEF CENTER

HAY AND STRAW STORAGE

EQUIPMENT STORAGE

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989
April 7, 1989

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION 1

Description: New water lines will be installed to obtain increased pressure and fire protection to the Waterman Farm Complex and Bee Laboratory.

<table>
<thead>
<tr>
<th>Description</th>
<th>Low Bid</th>
<th>Estimate of Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>$62,179.29</td>
<td>$94,090.50</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$62,179.29</td>
<td>$94,090.50</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$62,179.29</td>
<td>$94,090.50</td>
</tr>
<tr>
<td>TOTAL ALL CONTRACTS</td>
<td>$62,179.29</td>
<td>$94,090.50</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td>$69,900.00</td>
<td></td>
</tr>
</tbody>
</table>

Funding: University Bonds
April 7, 1989

TABULATION OF BIDS

NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION 1

<table>
<thead>
<tr>
<th>Bids Received</th>
<th>The Ohio State University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Opened</td>
<td>January 19, 1989</td>
</tr>
<tr>
<td>Opened By</td>
<td>Tamara Bell</td>
</tr>
<tr>
<td>Tabulated By</td>
<td>Michael Whitehead</td>
</tr>
</tbody>
</table>

**GENERAL CONTRACT**

<table>
<thead>
<tr>
<th>Bidder</th>
<th>Estimate of Cost</th>
<th>BASE BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. M. Savko</td>
<td></td>
<td>$62,179.29</td>
</tr>
<tr>
<td>Jack Conie &amp; Sons</td>
<td>65,359.85</td>
<td>$62,179.29</td>
</tr>
<tr>
<td>S. E. Johnson Cos.</td>
<td>68,280.35</td>
<td>$65,359.85</td>
</tr>
<tr>
<td>Danbert Contractors</td>
<td>69,788.75</td>
<td>$68,280.35</td>
</tr>
<tr>
<td>Gemini Construction</td>
<td>69,938.80</td>
<td>$69,788.75</td>
</tr>
<tr>
<td>George Igel Co.</td>
<td>70,730.66</td>
<td>$69,938.80</td>
</tr>
<tr>
<td>Walter Jones Constr.</td>
<td>72,421.75</td>
<td>$70,730.66</td>
</tr>
<tr>
<td>The Righter Co.</td>
<td>72,567.75</td>
<td>$72,421.75</td>
</tr>
<tr>
<td>S J &amp; R Quality</td>
<td>75,526.00</td>
<td>$72,567.75</td>
</tr>
<tr>
<td>Concrete Constr.</td>
<td>78,579.50</td>
<td>$75,526.00</td>
</tr>
<tr>
<td>Tom Mayle &amp; Sons</td>
<td>80,942.50</td>
<td>$78,579.50</td>
</tr>
<tr>
<td>Woodward Excavation</td>
<td>84,359.89</td>
<td>$80,942.50</td>
</tr>
<tr>
<td>Complete General Constr.</td>
<td>88,211.00</td>
<td>$84,359.89</td>
</tr>
<tr>
<td>Smith &amp; Bruce</td>
<td>91,229.39</td>
<td>$88,211.00</td>
</tr>
<tr>
<td>Gaddis &amp; Sons</td>
<td>107,651.00</td>
<td>$91,229.39</td>
</tr>
</tbody>
</table>

* Contract awarded to this bidder.

1057
NORTHWEST UTILITIES
WATER LINE - PHASE II, SECTION 1

EXISTING 12" WATER LINE

PROPOSED 12" WATER LINE

BEY LABORATORY

CALF BARN

MAIN DAIRY BARN

HOUSING BARN

CARMACK ROAD

LANCE AVENUE

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 7, 1989

1058
Page 1059 is blank
Page 1060 is blank
The Board of Trustees met at its regular monthly meeting on Thursday, May 4, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**  **  **

Minutes of the last meeting were approved.

**  **  **
May 4, 1989 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on May 4, 1989, at 1:45 p.m. He requested the Secretary to call the roll.


--0--

ELECTION OF OFFICERS
BOARD OF TRUSTEES

Resolution No. 89-94

Mr. Scott read the Nominating Committee's report in which the following slate of officers were recommended:

WHEREAS pursuant to paragraph (B) of rule 3335-1-02 of the Administrative Code, the officers of the Board are to be elected at the May meeting to take office immediately following adjournment of the meeting (May 4, 1989) and shall hold their office through the May 1990 meeting:

NOW THEREFORE

BE IT RESOLVED, That the following slate of officers for 1989-90 be elected:

John W. Berry, Chairman
Shirley D. Bowser, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Mr. Immke

I would like to now call on Dr. Jennings for the President's Report.

President Jennings:

Thank you, Mr. Chairman. First, I have the great privilege to introduce a colleague of ours. As you know, last month you approved the appointment of Betty Jo Hudson to become the Ombudsman of the University. That is an extraordinary important position for both the faculty, staff, and students. Betty Jo comes to us from University College. She has been here, I think, now about 19 years and before that was a long time in Indiana. But I would just like to introduce her to you. Stand up, Betty Jo. Thank you.

As you are aware our Provost, Myles Brand, has recently been named President of the University of Oregon. I want to take this opportunity to extend our congratulations to Professor Brand on this outstanding opportunity. I know that all of
you join me in expressing our deep appreciation to Myles for a job well done. In only three years, he has made an enormous impact on our University, and he surely will be missed. Today, I want to offer our thanks to Professor Brand for his good work and extend to him and Peggy our best wishes for continued success.

Myles joins a very distinguished group of Ohio State family members who have become university presidents. I believe that it is no accident that the higher education community looks to Ohio State for leadership. This University’s strong and effective governance structure and its traditions of excellence are well-known throughout the country.

Our success derives from the only significant asset we actually possess: our quality faculty, students, and staff. The considerable efforts of many individuals continue to enrich the educational environment through innovation while, at the same time, holding to the essential characteristics which define our role as a university in this society.

Many new initiatives are underway at this institution, and some might speculate on the impact of the departure of the Vice President of Academic Affairs and Provost and the Vice President for Research and Graduate Studies, which we announced a month ago. Their departures represent substantial losses, but we should remind ourselves that the guiding principle of operation in this University is faculty governance, and that we in the administration are here to serve the faculty that they may better serve our students. This operating philosophy includes decentralization, individual accountability, small central staff, and budget discipline, as well as open and public discussions of our problems and opportunities through a well-defined governance structure.

This philosophy is nowhere more evident than in our efforts at curriculum review. With the 1987 report from the Special Committee for Undergraduate Curriculum Review (the Reagan Committee) as its foundation, this institution has moved forward with curriculum revision. The Colleges of the Arts and Sciences has developed a model curriculum, and courses are now being submitted for inclusion. The arts and sciences colleges’ major programs are also being reviewed. Other colleges, such as agriculture and nursing, are working on their curriculum. These continuing activities will be reviewed by the Council on Academic Affairs within a very few months. We are close to having a new general education curriculum at this University.

These advances represent literally thousands of hours of work by individuals and committees at many levels over a number of years. I encourage the continued commitment of all faculty members to think broadly about the goals of quality education which we all deeply share.

While such activities require effective, shared leadership, their success derives from those who engage in the work of their development -- sometimes behind-the-scenes, requiring lengthy discussions and research, and calling for hours and hours of committee meetings. I am very proud of all that has been done and of the proven effectiveness of the structures and processes in place to facilitate such activities. I am confident that with the continued support of the faculty, the curriculum initiatives will be carried to completion and implementation will be appropriately funded.
Furthermore, I applaud the efforts of so many members of the Ohio State community in advancing the University's commitment to affirmative action beyond articulation to advocacy and to action. We have come a long way from merely acknowledging the problems of access and success among the faculty, staff, and students. Senate committee reports and specific proposals have come forward including, notably and recently, the various action plans and the Report of the Senate Committee on Women and Minorities.

A number of innovative and energetic efforts are underway. We can point with pride to the Young Scholars Program and to the individual successes of departments and colleges in expanding Ohio State's diversity. Our efforts are recognized by many as a model for the nation. But much remains to be done. The University must -- and will -- continue to work on this very important activity.

One of the most clear indicators of the quality reputation of this University among our academic peers is the number of truly outstanding faculty who have recently joined our distinguished Ohio State family. The presence of distinguished scholars and the existing climate of intellectual energy have attracted first-rate faculty. With the continued accomplishments of our faculty and the growing reputation of our undergraduate student body, this momentum can continue. I often have said that Ohio State is the University for the 21st century. Indeed it is, and we must -- and will -- safeguard our quality by aggressively and creatively supporting excellence in our faculty to the fullest extent.

To this end, department chairs, administrative officers, and deans will hear -- perhaps with mixed feelings -- the promise that they will continue to be asked to carefully evaluate their activities and related fiscal needs, particularly during this time of financial uncertainty. Scarce resources always need to be distributed efficiently and effectively no matter the situation.

Beyond anticipating our fiscal needs, we also must continue to examine the future programmatic needs of the University and of each department through program review which will, of course, also continue. Many areas throughout our campuses at all levels have been doing this in some form for decades. Recent examples of linking fiscal and programmatic review may be seen in the colleges of home economics, medicine, and mathematics and physical sciences. They have undertaken careful review of their commitment of fiscal and human resources and should be commended for their good work. All of us will continue the work necessary to provide the best possible educational environment so that, even with limited resources, we can keep our momentum and continue to advance the quality of The Ohio State University.

The decentralization of the review functions and of budget discipline reinforces the principles of faculty governance. From the debate promoted by such activities comes the core strength of this institution. The importance of the faculty is underscored in the significant role that our first faculty played in laying the foundation for this University.

Indeed, at the celebration of the semi-centennial of The Ohio State University in 1920, Professor Thomas Mendenhall reminisced about our first seven faculty members, of which he was one. Mendenhall, a man of vision, said that the University's foundation "should be broad and liberal, and that it should be laid with a view to its sometime bearing the super-structure of a great State University."
President Jennings: (contd)

Mendenhall reported that it was these seven faculty members "upon whom rested the responsibility for the success or failure of the New Educational experiment. It was not long before we were joined by others, equally capable, and equally enthusiastic in their efforts to win success...."

They are, indeed, joined by hundreds of women and men on today's faculty who are committed to excellence. The accomplishments of The Ohio State University are significant, and we can all take great pride in the work of many people to achieve these ends. The University has faculty members, students, and staff members who are strongly dedicated to Ohio State. With their loyalty and with a well-established, well-respected governance structure in place, the work ahead promises to be rewarding and exciting. I certainly look forward to working many years with the new vice presidents as together we pursue the highest standards of academic achievement for the people of The Ohio State University.

Thank you, Mr. Chairman. And Myles, thank you again for all you have done for me and Ohio State. We will miss you substantially.

Dr. Brand:

It has been a great experience for me and I think I will always "bleed scarlet and gray."

--0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

I would like to report on the Research Foundation meeting that we had yesterday. The Research Foundation grants and contracts for the month of March 1989 are shown in the Board agenda book. There are 125 awards listed which provide a gross income of $7.9 million.

Funding for the first nine months of this fiscal year is 20 per cent ahead of the same period last year. Funding increases are noted for the Federal and Industrial sectors while funding is about even with last year for the State of Ohio and the Other Non-Federal sector.

Some highlights of awards are:

$188,000 from the National Aeronautics and Space Administration for research in aviation and space automation systems.

$103,000 from the NSF for a program of in-service training for high school mathematics teachers.

$75,000 from the NSF to the Department of Physics for research on the electronic properties of conducting solids.

$50,000 from the NSF to the Ohio Supercomputer Center for support of a regional network among Ohio universities.
May 4, 1989 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

That concludes my report. I would now like to turn the remainder of this report over to Jack M. Hollander, Vice President for Research and Graduate Studies. I would like to add my thanks, it has been an honor to work with you, Jack. I was told yesterday, at our meeting, that this was to be Jack's last meeting at the Research Foundation, and this will probably be the last meeting with the Board of Trustees. So, Jack, I turn this over to you with our thanks. It's been an honor and a pleasure working with you. And I think this report, along with the other reports that have been made, shows how successful you have been. Jack --

Dr. Hollander:

Thank you very much, John. It has been a pleasure for me to work with you and all of the members of the Ohio State family. I think we are doing very well in research as those figures indicated.

Just a brief addition to Mr. Barone's report. The last item he mentioned -- the $50,000 from the National Science Foundation is a bit of a sleeper. I want to underscore the importance of the network that our group has built around the State of Ohio which links together all the universities and colleges in the State. The network for communication is usable not only for computing but also for library other educational communication purposes. It certainly puts us in the leading group in the nation. This particular award will help to tie that network in with the national and international network which will be extremely significant. So thanks again, John.

Mr. Barone:

One further thing. The Research Foundation Board wishes to thank the Board of Trustees for the new building -- that is, the change of building. It is a much better building and we are all grateful and they wanted me to express my gratitude and thanks to the Board of Trustees and you, Mr. President, for making this possible.

President Jennings:

That is the move of OSURF to the old National Center for Research in Vocational Education on Kenny Road.

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Executive Committee of the Hospitals Board met last Thursday, April 27. The Medical Director, Dr. Mekhjian, reported on medical staff activities, including a new policy to ensure more efficient handling of laboratory specimens and a study to assess the frequency and appropriateness of "stat" orders for patient tests. "Stat" is a medical term for "right now."

Dr. Kathryn Clausen who is the outgoing Chief of Staff, reported on the election of the new officers. Dr. William Smead, who is the Chief of Staff-elect, reviewed existing facilities for Surgical Intensive Care patients. He pointed out to us that the
Mr. Teaford: (contd)

...project which we have planned to improve those facilities estimated at $10 million, now probably needs $14 million. That has been sent to a committee to discuss and study.

It was a very gratifying and exhilarating committee meeting because we had so many responses to the questions that had been raised in the previous meeting. And I am able to report that the temperature in the operating room is now satisfactory to both anesthesiology and surgery.

Mr. Immke:

Joel, what is the temperature in the rooms?

Mr. Teaford:

I don't know what it is, but -- actually it is on a sliding scale.

Mrs. Bowser:

It depends on how many people are in the room, how long they are there, and how many patients they have.

Mr. Teaford:

The temperature goes down as the surgeon heats up. That is literally true.

Mrs. Bowser:

They lose what -- eight pounds?

Mr. Teaford:

No. Two pounds in a typical surgery. Mr. Buchanan updated us on the Medical Center development activities. The Medical Center development is really, in many ways, just getting underway now. In fact, there will be a reception downtown within this month to really get us rolling on development activities for the Medical Center.

Mr. Purcell then presented the March financial and statistical reports and we had a considerable discussion about billing and the collection of accounts. He indicated to us that they are to undertake studies of the causes of the slow collection of accounts, particularly directed to what extent they are internal and to what extent they are external. And once we have those kinds of reports we believe that we can start to reduce the period it takes to collect, which as I have told you approaches 100 days.

Mr. Cottillion gave a progress report on the implementation of the Medical Center's strategic plan. And, I am happy to report that the strategic plan is, indeed, being implemented. I think it is going to prove to be a very useful tool and a good discipline for everyone over there.
May 4, 1989 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

Mr. Lazarus at our previous meeting had requested that we take a look at the proliferation of committees. Dr. Tzagournis gave us a superb report on the medical staff committees within the Hospitals and their responsibilities and their reporting relationships. He told us that perhaps the principle problem is that there are lots of ad-hoc committees that never seem to die. He has asked the Executive Director, the Medical Director, and the Chief of Staff to review all of the committees, define their roles, and streamline the system. A written charge with time frames will be given to each committee at the beginning of each fiscal year. And they will make quarterly reports to the Board with the hope of the Board being involved in determining whether we really need quite so many committees.

We were, of course, pleased to welcome Reed Fraley, as the permanent Executive Director of the Hospitals. He assured us that in no time at all he will have everything working with perfection. And we look forward to that.

I might point out that the billing project continues. The many representatives of the practice plans will be meeting with the auditors to hear their final report. And as an encouragement to get something moving, I, Dr. Kramer, head of the Hospitals Board, and Dr. Jennings will all be present at that meeting next week. So, I hope to report to you next month that we really made some progress in that area.

That completes my report, Mr. Chairman.

Ms. Casto:

I said last night, Joel, Dr. Tzagournis asked Mr. Redman not to say anything about centralized billing. But I said that this is now my fourth chairman that I have been through and we still don’t have centralized billing.

Mr. Immke:

I will have to pass that on to Chairman Berry.

--0--

UNIVERSITY FOUNDATION BOARD REPORT

Mr. Teaford:

The most recent meeting of the Foundation Board was held on Friday, April 14. At that time the Campaign totals were announced and they may be repeated again here later, but we are as of the end of March at $335 million.

Mr. Leet, the Chair of the National Campaign Steering Committee and member of the Foundation Board, reported to the Board several significant accomplishments at this point in the Campaign. There are more than 30 endowed faculty chairs and professorships which have been funded; more than 315 new endowed funds have been created supporting scholarships, fellowships, research, facilities, lectureships, and other special programs. Both the Columbus regional and the corporate campaigns have reached and exceeded their goals. And, to date, the Campus
May 4, 1989 meeting, Board of Trustees

UNIVERSITY FOUNDATION BOARD REPORT (contd)

Mr. Teaford: (contd)

Campaign has raised $13.6 million in gifts and pledges which exceeds their original goal of $12 million.

The Chairman noted that special recognition should be given to former Campaign Chair Fred Ruffner and to the Campaign staff for their valuable work. And, I think we should once again recall the importance of the vision of the President in being daring enough to think that we could raise that kind of money. I think that has been significant to this program.

The members discussed short- and long-range plans for the Office of Development. Between now and the Campaign end the emphasis will be on concluding the Campaign at the highest possible level, achieving a maximum level of support for those priorities which remain unfunded, and for pushing the individual programs that are not yet fully implemented like the Medical Center Development Program. And, of course, preparing for keeping fund raising as a principle goal at this University on a permanent basis. Such preparation will include emphasis on a more systematic approach to major gift fund raising and cultivation; maintaining and strengthening regional offices, including Columbus, as a key to establishing effective cultivation and solicitation programs outside of Central Ohio; and expanding the annual program in terms of funds raised and the per cent of participation among alumni. Mr. Chairman, that completes my report.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Berry:

The Investments Committee met this morning and we heard first a report on Endowment investments which showed a market value of $270.8 million as of April 21. This is the highest dollar total the Endowment has ever achieved and it is noted that in the last eight years it has increased by almost $200 million.

As Mr. Teaford mentioned, I may repeat a little bit of the Campaign results, because Mr. Tobin did talk to the Committee this morning. Although I think that anything as good as the results of the Campaign bears repeating. The gifts and pledges to reach $335.2 million by the end of March, and it represents 96 per cent of the $350 million Campaign goal. We anticipate to reach this first goal anyway probably in the next several months. The gifts for this fiscal year represent over $33 million and is a 9 per cent increase over the same 9 months of the previous fiscal year.

Mr. Nichols reviewed for the Committee members the procedures being followed and progress to-date in implementing the Board’s action to select appropriate index funds for the University Endowment.

The annual income distribution policy for endowed accounts was also reviewed. This policy, which distributes 5.5 per cent of the average market value over the most recent three years, appears to be a prudent distribution policy for Ohio State's Endowment at this time. And, unless there are other members that want to add something, that concludes my report, Mr. Chairman.
Ms. Casto:

This morning we received a report on our Graduate Study Programs. I found that there were some real interesting statistics: 1) we have the largest enrollment of graduate students in the nation here on this campus; 2) we maintain 127 disciplines here on this campus; 3) 2,400 graduate faculty and 127 graduate study committees, and committees collectively determine the conduct of graduate education at the university; and 4) we have appointed a 15-member commission on graduate education to make independent assessments and recommendations to graduate education at Ohio State. With the report due next year, the one-hundredth anniversary of our first award of a doctoral degree, they made note that while there is much that is good about the graduate education at Ohio State and our graduates have gone on to make significant contributions in academics, business, and other professions, the Commission report in conjunction with the strategic planning process will stimulate change and development as needed. I think it is most important that we recognize that our Graduate School truly drives our educational process here at Ohio State and their research projects are very important.

(See Appendix XXXVIII for complete text on the Executive Summary for the Graduate School Update, page 1163.)

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

**RENAMING OF DEPARTMENT**

Resolution No. 89-95

Synopsis: The Academic Affairs Committee recommended the renaming of the Department of Veterinary Anatomy to the Department of Veterinary Anatomy and Cellular Biology.

WHEREAS the proposed name change of the Department of Veterinary Anatomy to the Department of Veterinary Anatomy and Cellular Biology has the unanimous support of the faculty in the Department, the Executive Committee of the College of Veterinary Medicine, and the Council on Academic Affairs; and

WHEREAS on the national level the discipline of anatomy has expanded beyond traditional concepts and is using molecular and biological techniques; and
May 4, 1989 meeting, Board of Trustees

RENAMEING OF DEPARTMENT (contd)

WHEREAS departments of veterinary anatomy in a majority of the major institutions in this country have changed their names to more accurately reflect their new thrust in the cellular biology area; and

WHEREAS the Department has and will continue to redesign its curricula to reflect a cellular approach; and

WHEREAS new faculty will be conducting research in new areas of the discipline; and

WHEREAS the name change will make the Department more competitive for external funds, for new faculty, and for graduate students:

WHEREAS the University Senate approved the renaming of the Department of Veterinary Anatomy on April 8, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the Department of Veterinary Anatomy to the Department of Veterinary Anatomy and Cellular Biology, effective immediately, is hereby approved.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY
Resolution No. 89-96

Synopsis: The Academic Affairs Committee recommended the approval of the following amendments to the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on April 8, 1989, as follows:

AMENDED RULES

3335-5-06 Guest speakers.

It is the policy of the university to foster a spirit of free inquiry and to encourage the timely discussion of a broad range of issues, provided that the views expressed are stated openly and are subject to critical evaluation. Within our prevailing standards of decency and honesty, this policy shall be construed to mean that no topic or issue is too controversial for intelligent discussion on the campuses. Restraints on free inquiry should be held to that minimum which is consistent with preserving an organized society in which change is accomplished by peaceful, democratic means. To this end, registered student organizations, faculty, and others entitled to sponsor a meeting involving the use of university facilities (see rule 3335-13-03 of the
May 4, 1989 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

Administrative Code) may invite guest speakers to the campuses. The sponsors must take reasonable steps necessary to ensure that the meeting is conducted in an orderly manner.

3335-5-19 Faculty.

As used in these rules the term “faculty” shall include persons appointed by the board of trustees with regular, regular clinical, auxiliary, and emeritus faculty titles on full- or part-time appointments, with or without salary.

(A) unchanged.

(B) “Regular clinical faculty”: persons with the titles of professor of clinical (department or college), associate professor of clinical (department or college), assistant professor of clinical (department or college), and instructor of clinical (department or college), who serve on appointments totaling fifty per cent or more service to the university. Regular clinical faculty appointments are made only in the college of dentistry, the college of optometry, the departments of veterinary clinical sciences and veterinary preventive medicine in the college of veterinary medicine, and the following departments in the college of medicine: anesthesiology, family medicine, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, physical medicine, preventive medicine, psychiatry, radiology, and surgery.

The number of persons holding regular clinical faculty titles in each department or college cannot be greater than one-third the number of persons holding regular faculty titles in that department or college. Individuals appointed to the regular clinical faculty are limited to participation in governance at the departmental and college levels, but may not participate in promotion and tenure matters of regular faculty.

3335-5-452 Secretary of the university senate.

(A) The secretary of the university senate shall be a tenured member of the regular faculty, appointed by the president from three nominees submitted by the steering committee. The term of office shall be for three years. Prior service as secretary need not preclude nomination to this office. During the term of office the secretary shall be reassigned for a minimum of fifty per cent of time to the office of the university senate during autumn, winter, spring, and summer quarters.

(B) The responsibilities of the secretary of the university senate will be to:

(1) Serve as a resource person for members of the university community on matters relating to university governance and to activities of the university senate.

(2) Promote active, effective participation in university governance by the members of the constituencies of the university senate.

(3) Coordinate the responsibilities of the office of the university senate as described in rule 3335-19-09 of the Administrative Code.

(4) Serve as a voting member of the program committee and the rules committee, a non-voting member of the steering committee of the university senate, and a member of the faculty advisory committee to the chancellor of the Ohio board of regents (FAC).
May 4, 1989 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(5) Serve as a resource person for university and senate committees.

(6) Issue notification of senate meetings, agendas, and reports of senate actions in accordance with rule 3335-19-11 of the Administrative Code.

(7) Keep the records of the meetings of the university senate and furnish to the president for report to the board of trustees all matters passed by the university senate requiring board of trustees approval or action.


3335-47-11 Regular clinical faculty ranks.

The titles of regular clinical faculty are professor of clinical (department or college), associate professor of clinical (department or college), assistant professor of clinical (department or college), and instructor of clinical (department or college). Individuals in this track may have a full range of responsibilities to appropriate academic units with emphasis on patient care and clinical teaching activities. Clinical activities for faculty members in this category are to be included in approved practice plans.

(A) Appointment criteria.

Initial appointments, or transfer, to the regular clinical faculty will be made for individuals with the following experience or credentials:

(1) They are strict or geographic full-time faculty members in academic units authorized to make regular clinical faculty appointments (see paragraph (B) of rule 3335-5-19 of the Administrative Code).

(2) Unchanged.

(3) They have the appropriate educational background and credentials to engage in the activities outlined in paragraph (A)(2) of this rule. Formal requisite: D.D.S., D.V.M., M.D., or O.D. degree or equivalent qualification.

(4) They are essential to the continuing mission of the relevant college as determined by the appropriate clinical department chairperson, dean of the college, and vice president for academic affairs and provost.

(B) Term of appointment.

(1), (2), (3), and (4) unchanged.

(C) Transfers.

It is generally expected that the needs of the academic unit and the career goals of the prospective faculty member will result in meshing of need, expectation, responsibility, and expertise to allow a long-term appointment to either the regular faculty or regular clinical faculty. Should a transfer be considered appropriate, the following must be accomplished:

(1), (2), and (3) unchanged.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(4) All transfers must be approved by the department appointments, promotions and tenure committee, the department chairperson, the dean of the college, and the vice president for academic affairs and provost.

(5) Unchanged.

(D) Promotions.

Nominations for promotion originate in the department (or college if no departments exist) in accordance with criteria and procedures established by departmental (or college) faculty.

(1) A department or college may recommend the promotion of an instructor of clinical (department or college) to the rank of an assistant professor of clinical (department or college) or the promotion of an assistant professor of clinical (department or college) to the rank of associate professor of clinical (department or college) at any time up to the end of the ninth year. An individual who is not promoted by the end of nine years will be reviewed by the chairperson or dean and the appointments, promotions and tenure committee of the department or college to determine if continued employment is warranted. All recommendations will be reviewed by the appointments, promotions and tenure committee of the department, the college, and the office of academic affairs.

(2) A department or college may recommend the promotion of an associate professor of clinical (department or college) to professor of clinical (department or college) in recognition of outstanding accomplishments. Promotion may be recommended no earlier than the third year of service as an associate professor of clinical (department or college). All recommendations will be reviewed by the appointments, promotions and tenure committee of the department, the college, and the office of academic affairs. (B/T 10/5/84, B/T 5/4/89)

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Immke, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

POLICY ON PATENTS AND COPYRIGHTS

Resolution No. 89-97

Synopsis: The Academic Affairs Committee recommended the following amendments to the Policy on Patents and Copyrights.

WHEREAS the Interim Policy on Patents and Copyrights was approved by the University Senate at its April 13, 1985 meeting, and approved by the Board of Trustees at its May 3, 1985 meeting; and
POLICY ON PATENTS AND COPYRIGHTS (contd)

WHEREAS the Interim Policy called for a review of that document after two years; and

WHEREAS the Faculty Committee on Patents and Copyrights has proposed revisions to the Interim Policy on Patents and Copyrights; and

WHEREAS those revisions have been reviewed and approved by the Vice President for Research and Graduate Studies and the Council on Research and Graduate Studies; and

WHEREAS the University Senate approved the proposed revisions to the Interim Policy on Patents and Copyrights on April 8, 1989, as follows:

I. PURPOSE AND SCOPE

A. Purpose of Policy

A primary mission of The Ohio State University is to encourage and support research by its faculty, students, and staff that will serve to expand the body of general knowledge and enrich the educational program of the University. As a corollary to that mission, the University is committed to facilitating the dissemination and utilization of the knowledge acquired by this research for the public good. It is recognized that this research may result in patentable inventions or copyrightable materials that will serve the public good through commercial development. Patents should be considered to be a part of the professional work of faculty members, along with journal articles, books, invited talks, and other methods of disseminating knowledge. Therefore this Policy on Patents and Copyrights is adopted for the following purposes:

1. to facilitate development and utilization of the results of research carried out in connection with University activities in a manner consistent with the University's missions;

2. to obtain appropriate benefits for the University from commercial applications of research results and apply funds accruing to the University from such applications for the support of research and other scholarly activity at the University and for sharing with the individual inventors and creators; and

3. to ensure that the rights and interests of all parties concerned are fairly determined, with full consideration of the proper role of the University and the principles of academic freedom.

B. Definitions

The following definitions will be employed in interpreting and implementing this Policy:

1. "Sponsored Program" means a research or other activity undertaken by the University or one of its units subject to specific obligations to another party. However, the ordinary obligations of the University to students (or their parents, guardians or dependents) solely as a consequence of enrollment or to faculty and staff (or their dependents) solely as a consequence of employment will not be construed as transforming normal enrollment or employment arrangements into agreements for Sponsored Programs.

2. "University Research" means any research or development activity which

   (a) is undertaken in connection with a Sponsored Program, or
POLICY ON PATENTS AND COPYRIGHTS (contd)

(b) is directly and immediately related to duties or responsibilities for which a person is compensated by the University or one of its units, or

(c) is conducted with more than insignificant use of facilities or equipment provided by the University or one of its units.

(3) "Researcher" means any person, whether faculty, staff, student or other, engaging in or directing University Research.

(4) "Product of University Research" refers generally to inventions and other legally protectable material arising out of University Research and includes any discovery, invention, know-how, design, model, work of authorship (including computer software), and any strain, variety or culture of an organism or any portion, modification, translation, or extension of these items. It includes marks used in connection with these. It does not include works of artistry, academic instruction, or traditional scholarship (including descriptions or discussions of University Research) insofar as these works were not produced as part of a Sponsored Program or of a specific University duty or assignment.

C. Statement of Policy

In order to provide for the fullest realization of benefits from University Research to the public, the University and individual Researchers, this Policy reaffirms the University's right and policy, consistent with applicable law, of ownership of all legal rights in Products of University Research and establishes procedures and guidelines to assure the responsible exercise of that right. Where the University does exercise the right of ownership, it has a commitment to taking reasonable and appropriate steps to secure legal protection through patents, copyrights and the like and to facilitate utilization through licensing or other transfer for practical development and introduction.

Subject to the provisions of this Policy, the acquisition, protection and disposition of rights in Products of University Research, and the collection and allocation of income therefrom, shall be under the direction of the Vice President for Research and Graduate Studies. The Vice President shall be guided by the principle that such arrangements should be consistent with the primary missions of the University to educate and to generate and disseminate knowledge.

Implementation of this Policy is dependent upon the cooperation of the University's faculty, students and staff. Individual Researchers will share in royalty or other income from their inventions or creations according to the provisions of this Policy. They will also have an avenue for appeal from administrative actions or delays.

D. Scope of Policy

This Policy is applicable to all units of the University including its colleges, schools, departments, centers, institutes, and hospitals, and to all of the University's faculty, staff (i.e., employees who are not regular faculty members), and students. Applicable law and the terms of Sponsored Program agreements and other contractual arrangements undertaken by the University or one of its units in good faith will govern where they differ from the provisions of this Policy.

It is not intended that this Policy change the traditional relationship between the University and faculty authors of textbooks and other scholarly and artistic works. Therefore, except in those cases in which the production of such materials is a part of a Sponsored Program or of specifically assigned duties of a faculty member, copyrights in textbooks, monographs, papers,
May 4, 1989 meeting, Board of Trustees

POLICY ON PATENTS AND COPYRIGHTS (contd)

musical compositions, works of art, unpublished manuscripts, and the like will be the sole and exclusive property of the faculty creator. Use of University resources in the creation of these works varies from field to field; arrangements for such use should be approved by the chairperson, dean, or other appropriate academic officer.

Except with respect to items which qualify as works made for hire under copyright law, staff members of the University shall be fully eligible for participation in the distribution of income or the transfer of University rights under this policy.

Students who are also employees of the University shall be treated under this Policy as staff members in connection with matters related to their employment. Students who hold awards such as scholarships or fellowships through the University upon which the funding body has placed restrictions as to items developed during the course of the award shall be treated under this Policy in the same manner as students working on Sponsored Programs.

In cases arising under Section I B(2)(c), the University will ordinarily transfer or waive its rights to student inventors or creators where the use of University facilities, equipment, or other resources has been properly authorized unless:

(1) faculty or staff involvement is substantial and the University desires to exercise its rights based on that involvement,

(2) the work is part of a larger work over which the University intends to exercise its rights, or

(3) the use of such University facilities, equipment, or other resources is substantially in excess of the norm for educational purposes

Except in the circumstances described above, the University will not exercise a claim in student created textbooks, monographs, papers, musical compositions, works of art, unpublished manuscripts, and the like, arising under Section I B(2)(c) of this Policy. The properly authorized use by students of word processors, artistic studios and materials, and the like or the use of University libraries shall not constitute the basis for a University claim in items subject to this Policy.

Only trade and service marks specifically related to Products of University Research are within the scope of this Policy. Insofar as such marks involve the name or symbols associated with the University generally, or with other specific University activities, they will be dealt with in coordination with those having responsibility for matters relating to such name or symbols.

Except as to their use in University Research, questions concerning the use by or for the University, or its faculty, staff or students, of inventions, trade secrets, plant varieties, works of authorship (including computer software) and the like belonging to others are not within the scope of this Policy. General publication, performance and/or display activities of the University, such as those of The Ohio State University Press, University Publications, the Office of Continuing Education, the Cooperative Extension Service, University Galleries, WOSU Stations, and the intercollegiate athletics program, are not within the scope of this Policy except insofar as such activities are part of a Sponsored Program or result in the publication, performance and/or display of a work that is independently a Product of University Research.

In applying this Policy to particular situations, the version in effect at the time of such application will ordinarily be employed. For this purpose, income will normally be allocated under this Policy as of the time the income is received.
II. ADMINISTRATION

The Vice President for Research and Graduate Studies shall have the primary responsibility for the implementation of this Policy on behalf of the University. All or a portion of the administration of activities with respect to this Policy may be delegated by the Vice President to a Patent and Copyright Administrator ("Administrator") and to others.

A. The Administrator

The Administrator shall, under the general direction of the Vice President for Research and Graduate Studies:

1. with the Faculty Committee on Patents and Copyrights, develop standards and procedures for the implementation of this Policy for submission to the Vice President for Research and Graduate Studies;

2. conduct day-to-day operations relating to matters subject to this Policy;

3. upon request, provide advice and assistance to Researchers with respect to consulting agreements with industrial and other organizations that may involve rights to items within the scope of this Policy and to appropriate University officials who have responsibilities with respect to the approval of consulting arrangements;

4. maintain a file for each disclosure of an item subject to this Policy which will contain complete records of all actions;

5. determine whether the University or any other party has rights in an item subject to this Policy, and if so, the basis and extent of such rights;

6. where there are two or more persons associated with the University claiming to be inventors or creators of an item subject to this Policy, encourage and facilitate an early agreement (in a form acceptable to the University) among them concerning which of the claimants shall be considered inventors or creators for the purposes of this Policy and in what fraction each shall share in the benefits of the Policy;

7. in the absence of an agreement referred to in item (6) above, and after consulting with the Faculty Committee on Patents and Copyrights, recommend to the Vice President for Research and Graduate Studies for final determination on behalf of the University which of the competing claimants shall be considered inventors or creators for the purpose of this Policy and in what fraction they shall share in the benefits of the Policy;

8. determine whether an invention, discovery, writing, or other item to which the University has rights is patentable, copyrightable, or otherwise legally protectable;

9. for items subject to this Policy, recommend to the Vice President for Research and Graduate Studies whether

(a) the University should patent, copyright, or otherwise legally protect, or license the item, or
May 4, 1989 meeting, Board of Trustees

POLICY ON PATENTS AND COPYRIGHTS (contd)

(b) the University should dedicate its rights to the public, adhering to the wishes of the inventor or creator where feasible, or

(c) the University should transfer or waive its rights in favor of permitting the Researcher to protect and develop the item at his or her own expense, and whether conditions should be attached to a transfer or waiver

(10) obtain legal protection and arrange for licensing or other commercial development in those cases in which the University elects to pursue its rights, including preparing and prosecuting applications for patent, copyright registration, plant variety protection, and other legal protection, or retaining counsel or other assistance for that purpose, negotiating or assisting in negotiation of licenses and related agreements, and monitoring the collection of royalties or other related income;

(11) prepare or assist in the preparation of all required reports on inventions and discoveries, writings, and other items subject to this Policy;

(12) at the direction of the Vice President for Research and Graduate Studies, provide assistance to other University officers and officers of related organizations including The Ohio State University Research Foundation;

(13) consult with the Faculty Committee on Patents and Copyrights at least twice per year, or whenever deemed necessary by the Committee or the Vice President for Research and Graduate Studies, on matters concerning this Policy, its implementation, or administration;

(14) prepare an annual report for the Vice President for Research and Graduate Studies and for the President, the Vice President for Academic Affairs and Provost, the Vice President for Business and Administration, the Vice President for Finance, and other officers or committees as designated by the Vice President for Research and Graduate Studies.

The Administrator shall make a recommendation with regard to responsibility (9) above within ninety (90) days of the receipt of all of the required information, and advise the Researchers in writing of the decision of the Vice President for Research and Graduate Studies. The Administrator may consult with faculty, staff, students, or others with respect to carrying out these responsibilities.

B. The Faculty Committee on Patents and Copyrights

The Faculty Committee on Patents and Copyrights ("Committee") shall be composed primarily of members of the University faculty and shall elect its chair. Five members shall be elected by the Faculty Council in a manner to be determined by that Council. One graduate student shall be appointed by the Council of Graduate Students in a manner to be determined by that Council. Five members shall be appointed by the President in consultation with the Vice President for Research and Graduate Studies, the Vice President for Academic Affairs and Provost, and other appropriate officers of the University. Persons may serve no more than three consecutive years after which time they will be ineligible for service for one year. Members of the Committee shall not participate as members in deliberations or actions of the Committee concerning specific matters in which they have a beneficial interest. Official actions of the Committee shall require the concurrence of at least six members of the Committee.
May 4, 1989 meeting, Board of Trustees

POLICY ON PATENTS AND COPYRIGHTS (contd)

The Committee shall:

1. review, recommend, and advise the University on matters relating to this Policy;

2. review and advise the Administrator on the standards and procedures developed by the Administrator for the implementation of this Policy;

3. convene at least twice per year to review the procedures used in implementing and administering this Policy, and where deemed necessary, develop and recommend changes in standards and procedures to the Vice President for Research and Graduate Studies, the Vice President for Academic Affairs and Provost, the Administrator, and other appropriate officers of the University;

4. consult with the Vice President for Research and Graduate Studies or the Administrator when requested; and

5. serve as a board to which a Researcher may appeal actions of the Administrator, subject to appropriate review standards and procedures.

C. Variation of Policy for Special Situations

The Vice President for Research and Graduate Studies, with the concurrence of the Committee, may authorize variations from this Policy for good cause. Such variations shall be restricted to special situations.

D. Appeal of Actions by the Administrator

A Researcher may appeal actions of the Administrator to the Committee. Grounds for such appeal are alleged failure of the Administrator to fulfill the provisions of this Policy, to follow appropriate implementing guidelines, or to demonstrate reasonable diligence.

The Researcher shall submit the appeal in writing to the Chairperson of the Committee, who shall determine whether the Researcher has made a reasonable effort to resolve the complaint with the Administrator and whether the substance of the appeal appears to be within the scope of this Policy. Proceedings shall be informal, but all parties shall have adequate notice and an opportunity to be heard.

After considering all relevant information the Committee shall prepare and send to the Vice President for Research and Graduate Studies a report of its findings and decision on the issues raised by the Researcher and any corrective action it recommends. The Vice President shall promptly review the report and may adopt or modify it on behalf of the University. The Committee's finding as to whether an item is subject to ownership by the University under section I B(2)(b) or (c) shall be final and conclusive on the part of the University unless appealed by the Researcher.

The decision of the Vice President for Research and Graduate Studies shall be communicated to the Researcher and the Administrator within thirty (30) days of receipt of the Committee's report, and shall be final unless appealed to the President of the University by the Researcher or another interested party within thirty (30) days following the issuance. If so appealed, the decision of the President shall be final.
POLICY ON PATENTS AND COPYRIGHTS (contd)

If the Researcher, the Administrator, or any other person is concerned about protection of academic freedom as a result of the interpretation, implementation, or use of this Policy, the matter may be referred to the Committee for appropriate action.

III. RESPONSIBILITIES OF THE RESEARCHER

A. Disclosure

Responsibility for timely disclosure of items subject to this Policy, such as copyrightable material and marks, inventions, discoveries and related know-how, rests with the inventors or creators. They shall take all reasonable steps requested by the Administrator including the execution of assignments and the like necessary for evaluation of the item and the perfection of patent or other rights.

Faculty or staff members, including students in their capacity as employees of the University, who believe that they have invented items outside the scope of this Policy shall not file, or permit others to file in their name, patent applications without providing at least thirty (30) days notice and a statement of the circumstances of the invention to the Administrator. At the Administrator's request, additional information as to the nature and circumstances under which the item was developed and a copy of the invention disclosure or proposed patent application, whichever the Administrator may deem appropriate under the circumstances, shall be provided.

B. Consulting and Business Activities

Faculty or staff engaging in consulting or in business and those charged with approving such activities on behalf of the University are responsible for ensuring that any related agreements with external entities are not in conflict with this Policy or other commitments involving the University. Faculty and staff members should make their obligations to the University clear to those with whom they make agreements and should provide other parties to the agreement with a current statement of this Policy. The Administrator, upon request, will provide assistance in this respect.

The University's rights and the individual's obligations to the University which are subject to this Policy are in no way abrogated or limited by the terms of such agreements with third parties, except insofar as the Vice President for Research and Graduate Studies may specifically authorize in writing. Requests for authorization to abrogate or limit the University's rights or the individual's obligations are to be submitted to the Administrator.

IV. RESPONSIBILITIES OF THE UNIVERSITY

When the University makes the determination to exercise its rights to an item, it will promptly make appropriate efforts to legally protect the item and, with the assistance of the inventor or creator, it will search out and initiate negotiations with prospective licensees.

If the University does not choose to exercise its rights in an item through pursuit of legal protection and commercial development or otherwise or to transfer its rights to another party or to dedicate its rights to the public, or if the University chooses to protect an item, but does not arrange for its commercial development or dedication to the public within a reasonable time, then the inventor(s) or creator(s) may make a written request to the Administrator for transfer or waiver of the University's rights to themselves, and the Administrator will either recommend to the Vice President for Research and Graduate Studies that the request be granted, subject to any conditions deemed appropriate, or advise the requestor(s) of the University's plans for the item. Such transfers and waivers shall be subject to the retention of a non-transferable royalty-free license and to other reasonable conditions, but Researchers shall have the right in accord with
Section II D to appeal any conditions, as well as any other aspect of the request, to the Committee.

The University shall treat disclosures of items subject to this Policy as confidential and shall make reasonable efforts to avoid loss of rights due to lack of appropriate documentation or to improper or premature disclosure or to publication without proper copyright notice.

V. TRANSFER OF UNIVERSITY PROPERTY

The University must preserve any basis that may exist for protecting items subject to this Policy. In some cases, tangible property belonging to the University, including models, devices, designs, computer programs, cell lines, antibodies, recombinant materials, chemical compounds, compositions, formulations, plant varieties, and records concerning inventions or discoveries, constitutes a portion of that basis. Therefore, written approval of the Vice President for Research and Graduate Studies, or his or her delegate, must be obtained before tangible property associated with Products of University Research is removed from University facilities or transferred to any person or entity for commercial purposes. The Policy does not modify any existing requirements concerning the transfer of University property to others for non-commercial purposes.

Where required by a Sponsored Program agreement or where publication may affect the ability to legally protect an item subject to this Policy, timely prior written notice of any proposed publication reporting or describing any Product of University Research should be given to the Administrator so that patent applications may be filed in a timely fashion, appropriate copyright notices provided for, and any relevant obligations under a Sponsored Program agreement satisfied.

VI. DISTRIBUTION OF INCOME

A royalty account will be established for each Product of University Research for which any royalty or other income for rights in such Product is received or for which any authorized expense for protecting or licensing such Product is incurred, and all such income and expenses shall be recorded therein. A single royalty account may be established for more than one such Product where they are so closely related that individual items of such income or expenses are applicable to them in common.

Income to each royalty account shall be allocated as follows, and the allocated amounts distributed at least annually:

(1) Of the first $75,000.00 of income,

(a) fifty percent shall be allocated to the individual inventor(s) or creator(s), or their heirs, and

(b) the other fifty percent shall be allocated (i) first to defray the authorized expenses chargeable to that royalty account, including reserves for anticipated expenses, (ii) next to defray the authorized expenses of other royalty accounts that have not realized sufficient income to fully defray their own expenses, and finally (iii) any remainder shall be allocated proportionately according to the provisions of VI(2)(b)(ii) and (iii).

(2) Of income beyond the first $75,000.00.
May 4, 1989 meeting, Board of Trustees

POLICY ON PATENTS AND COPYRIGHTS (contd)

(a) an amount equal to any excess of authorized expenses of that royalty account over previous allocations of income from that royalty account to defray such expenses, shall first be allocated to cover such excess expenses, and

(b) any remainder shall be allocated

(i) one-third to the individual inventor(s) or creator(s), or their heirs,

(ii) one-fourth to be used for the support of research and other scholarly activities as determined by the Vice President for Research and Graduate Studies in light of needs throughout the University, and

(iii) the balance to the college and department of the inventor(s) or creator(s), divided equally unless some other division is authorized by the Vice President for Research and Graduate Studies, to be used for the support of research and other scholarly activities.

Where revenue, other than as part of the payment for conducting a Sponsored Program, is received by the University or one of its units for providing physical embodiments of, or services involving the use of, a Product of University Research, the amount charged for such embodiments or services shall include the estimated value of the (intangible) rights involved, established with the approval of the Vice President for Research and Graduate Studies or designee, and the corresponding proportion of such revenue shall be transferred as income to a royalty account.

Where income is received for rights in possible future inventions, works of authorship, etc., it shall be held in a royalty account until completion or termination of the project or other activities to which the rights relate. If, as determined by the Administrator, no invention, work, etc., to which such rights apply is in fact produced, any portion of such income designated by V(1) or (2) for allocation to individual inventor(s) or creator(s) shall instead be allocated equally to the college(s) and department(s) of the principal participant(s).

Awards, prizes, honoraria and the like received by individuals primarily as recognition for achievement are not considered to be royalty income subject to this policy, even if a transfer of rights in an invention, plant variety, design, work of authorship, etc. is a condition of the award, but any such transfer of rights in a Product of University Research is subject to the other provisions of this Policy.

Authorized expenses shall include expenditures for preparing and prosecuting applications for patent, plant variety protection, mask work protection and the like, including searches; official filing, registration, recording, issue and maintenance fees; legal services and other extraordinary expenses in connection with licensing and collection of income; and litigation. Ordinary administrative expenses will not be charged to royalty accounts, but where services that would normally incur chargeable expenses are provided internally, an appropriate charge may be levied as an expense against the relevant royalty account(s) to avoid discriminatory results. Where such expenses are incurred by a licensee under an agreement made subsequent to (date of adoption), the royalty account will recognize as expenses any portion offset against accrued royalties and as income any accrued royalties not paid because of such offset.
Amounts allocated to individual inventors or creators will ordinarily be divided equally among them, or their respective heirs. However, individual inventors or creators, or their heirs, may enter into agreements to reallocate such amounts among themselves and/or other contributing Researchers, but unless such agreements are in writing, signed by all of those affected and submitted to the Administrator, and are acceptable to the University as to unambiguity of the reallocation, absence of burdensome administrative requirements and assurance that no coercion is implicated, the University will not be required to honor them. Where any amount allocated to an individual cannot be distributed within five years because of inability to locate such individual, or heirs, such amount shall be reallocated proportionately according to the provisions of VI(2)(b)(ii) and (iii).

Where rights in a Product of University Research are transferred or waived to the Researcher(s), the allocation of expenses and income relating to such rights as between the University and the Researcher(s), and the allocation of any University income to the Researcher(s) under VI(1)(a) and VI(2)(b)(i), shall be specified in writing.

When there is a reasonable basis for believing that amounts subject to allocation and distribution under this Policy may be required to be refunded or otherwise expended, or that others may have a claim to such amounts, allocation and distribution may be delayed for a reasonable period required for resolution of the matter. No person shall have a right to receive payment or other benefit under this Policy before the Administrator has been notified in writing by that person of his or her basis for a claim. Upon good faith determination by the Vice President for Research and Graduate Studies that an individual has not contributed significantly to the invention or creation of the item in question and has no other valid basis for a claim, that person shall not be eligible for payment or other benefit under this Policy with respect to such item. Payments made in good faith to one or more claimants shall fully satisfy any obligations on the part of the University to all claimants for the amounts so paid.

VII. REVIEW OF POLICY

This Policy shall be reviewed from time to time by the Faculty Committee on Patents and Copyrights and a report made to the Vice President for Research and Graduate Studies. The report shall form the basis for any revision in the policy that may be appropriate.

NOW THEREFORE

BE IT RESOLVED, That the foregoing revisions to the Interim Policy on Patents and Copyrights be adopted as recommended by the University Senate.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

NAMING OF BUILDING

Resolution No. 89-98

Synopsis: The Academic Affairs Committee recommended the naming of a building on the Columbus Campus at 2036 Neil Avenue, currently known as the Civil and Aeronautical Engineering Building, in honor of Harold A. Boltz.
May 4, 1989 meeting, Board of Trustees

**NAMING OF BUILDING (contd)**

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus campus at 2036 Neil Avenue is currently described as the Civil and Aeronautical Engineering Building; and

WHEREAS during his tenure as dean, Dr. Harold A. Bolz directed the College of Engineering's expansion and modernization to provide some of the finest facilities for engineering of any university in the country; and

WHEREAS he has been an outstanding representative of the University through his leadership role in both community service and professional societies; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned building at 2036 Neil Avenue be named in honor of Harold A. Bolz:

NOW THEREFORE

BE IT RESOLVED, that hereafter the building at 2036 Neil Avenue shall bear the name "Harold A. Bolz Hall."

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

---0---

**NAMING OF BUILDING WING**

Resolution No. 89-99

Synopsis: The Academic Affairs Committee recommended the naming of the north wing of Hamilton Hall in honor of Professor Emeritus Emil Bozler.

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus campus at 1645 Neil Avenue is currently described as Hamilton Hall; and

WHEREAS during his 53 years at the University, Dr. Emil Bozler was known as a master scholar and educator; and

WHEREAS Dr. Bozler is internationally recognized for his scientific discoveries in muscle research; and

WHEREAS his work is the foundation of our current understanding of the origin and control of the heart beat; and

WHEREAS Dr. Bozler has brought great recognition to the State of Ohio, the University, and the College of Medicine; and
May 4, 1989 meeting, Board of Trustees

NAMING OF BUILDING WING (contd)

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned north wing of Hamilton Hall, located at 1645 Neil Avenue, be named in honor of Emil Bozler:

NOW THEREFORE

BE IT RESOLVED, That hereafter the north wing of Hamilton Hall shall bear the name "Emil Bozler Wing."

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

NAMING OF ROADWAY

Resolution No. 89-100

Synopsis: The Academic Affairs Committee recommended the naming of the roadway on the Columbus Campus, currently known as the Campus Loop Road, in honor of John H. Herrick.

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the section of roadway west of the agriculture and veterinary medicine buildings is currently known as Campus Loop Road; and

WHEREAS during his term as executive director of Campus Planning, Dr. John H. Herrick was the guiding hand in the creation of the University's Campus Master Plan in the 1960's, from which the basic idea for the campus loop road emerged; and

WHEREAS since his retirement from the University, Dr. Herrick has continued to serve the University as a volunteer, researching and writing the history of campus buildings, a summary of campus planning, and other valuable documentations which are major resources for historians and University developers; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned Campus Loop Road be named in honor of John H. Herrick:

NOW THEREFORE

BE IT RESOLVED, that hereafter the roadway from Woody Hayes Drive south and east across the Olentangy River to Cannon Drive shall bear the name "John H. Herrick Drive."

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
HOSPITALS BOARD APPOINTMENT

Resolution No. 89-101

Synopsis: The Academic Affairs Committee recommended the approval of emeritus status to a Hospitals Board member.

WHEREAS pursuant to bylaw 3335-93-01 of the University Hospitals Board Bylaws, the Board of Trustees may designate emeritus Hospitals Board members; and

WHEREAS Charles Y. Lazarus has had a long and loyal association with this University and with University Hospitals; and

WHEREAS since the Board's creation he has been one of its most steadfast members; and

WHEREAS his dedicated service, commitment and contributions to the Hospitals Board have been noteworthy:

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Hospitals Board and the President, the title of Hospitals Board Member Emeritus be conferred upon Mr. Charles Y. Lazarus, effective May 1, 1989.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

DEGREES AND CERTIFICATES - SPRING QUARTER COMMENCEMENT

Resolution No. 89-102

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Spring Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on June 9, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mr. Immke, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the April 7, 1989 meeting of the Board, including the following Reappointment of Chairperson of Department, Leaves of Absence Without Salary and Emeritus Titles, as detailed in the University Budget be approved.

Reappointment of Chairperson of Department

July 1, 1989 through June 30, 1990

Entomology

Clive A. Edwards

Leaves of Absence Without Salary

CARLOS E. CUEVAS, Assistant Professor, Department of Agricultural Economics and Rural Sociology, effective March 27, 1989, through April 13, 1989, to consult in the Zaire Agricultural Policy and Planning Project sponsored by the U.S. Agency for International Development (USAID).

LINDA A. MIZER, Assistant Professor, Department of Veterinary Anatomy, effective April 13, 1989, through June 14, 1989, for medical and personal reasons.

Emeritus Titles

HSIEN C. KO, Department of Electrical Engineering, with the title Chairperson and Professor Emeritus, effective January 1, 1989.

ANTOINETTE P. EATON, Department of Pediatrics, with the title Professor Emeritus, effective January 1, 1989.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 89-104

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Frances E. Bovard

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 26, 1989, of Frances Eckert Bovard, Assistant Professor Emeritus in the Cooperative Extension Service.
May 4, 1989 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Frances E. Bovard (contd)

Professor Bovard was born on November 30, 1911, in Portage, Ohio. She received her B.S. in Home Economics Education from Bowling Green State University in 1934; then spent three years as a teacher in the Portage and North Baltimore school system.

Professor Bovard began her Extension experience when she joined the faculty at The Ohio State University in 1937 as a Home Demonstration Agent, Home Economics in Lorain County. She later served in Henry County and Wood County as a County Extension Agent, Home Economics, before accepting the position of area Extension Agent, Home Economics, for the Defiance Extension area in 1970 and remained in this position until her retirement in 1974. Upon retirement, she was named Assistant Professor Emeritus.

Professor Bovard's contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her co-workers and many thousands of Ohio citizens.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Professor Bovard. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

John B. Mowbray

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 27, 1989, of John B. Mowbray, Professor Emeritus in the Cooperative Extension Service.

Professor Mowbray was born January 20, 1921, in Frankfort, Ohio (Ross County). He served in the United States Air Force in North Africa and the Middle East from 1941-45. He was awarded a Bachelor of Science degree in 1947 and a Master's degree in 1955, both in Agricultural Education from The Ohio State University.

Professor Mowbray taught Vocational Agriculture from 1947 to 1951 upon graduation from The Ohio State University. In January 1952 he began his Extension experience when he joined the faculty at The Ohio State University as a County Extension Agent, Agriculture, in Warren County. He assumed the responsibilities of County Extension Agent, 4-H, in Warren County in 1958, and the next year moved to Adams County as the County Extension Agent, Agriculture, and remained in this position until 1965. He then joined Scioto County as the County Extension Agent, Agriculture and held this position until his retirement in 1979. Upon his retirement, he was named Professor Emeritus.

Professor Mowbray was a member of the National Association of County Agricultural Agents; the Ohio County Extension Agents’ Association; National Farm Bureau; National Grange; Epsilon Sigma Phi Extension Honorary Fraternity; and was one of the original Extension agents in the development and building of 4-H Camp Graham. He has earned the respect and confidence of his peers, the clientele whom he had so dedicatedly served, and professionals within his county, the State of Ohio and the nation. John Mowbray had been recognized for his outstanding leadership abilities by receiving the Distinguished Service Award from the National Association of County Agricultural Agents and was a recipient of the National Association’s Search for Excellence Award.
May 4, 1989 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

John B. Mowbray (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Professor Mowbray its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT HEALTH INSURANCE

Resolution No. 89-105

Synopsis: The Student Affairs Committee recommended the renewal of the Student Health Insurance Program with Central Benefits Mutual Insurance Company, formerly known as Blue Cross of Central Ohio.

WHEREAS on April 8, 1988, this Board awarded a one year contract (effective Autumn Quarter 1988) to provide Student Health Insurance with the understanding that the program would be competitively rebid; and

WHEREAS after consideration of the desires and concerns of the students who purchase the insurance, the Student Health Insurance Committee of the Council of Student Affairs has recommended -- and the full Council on Student Affairs has ratified this recommendation -- that the competitively bid contract continue to provide the existing benefits plus the following improved/changed benefits:

- Increase hospital room and board coverage as follows:
  - 1989-90: from $210 per day to $220 per day ($10 increase);
  - 1990-91: from $220 per day to $225 per day ($5 increase).

- For nervous/mental and outpatient substance abuse coverage, reduce participant deductible from $500 to $250 and increase plan coinsurance from 50% to 80% (for both plan years).

- Increase major medical maximum coverage from $25,000 to $100,000 (for both plan years).

WHEREAS this program will be available on an optional basis to all registered students for the following proposed Quarterly Premium Rates:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Expiring Quarterly Rates 1988-89</th>
<th>Proposed Quarterly Rates 1989-90</th>
<th>Proposed Quarterly Rates 1990-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>$ 72</td>
<td>$ 89</td>
<td>$ 98</td>
</tr>
<tr>
<td>Student &amp; Spouse</td>
<td>221</td>
<td>216</td>
<td>239</td>
</tr>
<tr>
<td>Student, Spouse &amp; Children</td>
<td>322</td>
<td>408</td>
<td>450</td>
</tr>
<tr>
<td>Student &amp; Children</td>
<td>171</td>
<td>279</td>
<td>307</td>
</tr>
</tbody>
</table>

1090
NOW THEREFORE

BE IT RESOLVED, That Central Benefits Mutual Insurance Company be awarded the competitively bid Student Health Insurance contract effective the first day of classes, Autumn Quarter 1989, for a period of two (2) years. The contract will provide the benefits outlined above as well as those now available under the terms of the current contract.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXVIII for Executive Summary of the Report on the Student Health Insurance Committee, Council on Student Affairs, March 1989, page 1165.)

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning we heard from Mr. Warren King, Director of the Office of Disability Services. He provided an overview of the many services that are offered in this office. They really do have phenomenal computer abilities in Disability Services. They do seem to have made it a lot easier for people who are handicapped and compensated in other ways so they are able to learn to whatever capacity they would like to learn.

(See Appendix XXXX for complete text of the Report on the Office for Disability Services, Division of Student Affairs, page 1169.)

I would like to call on Roger Musgrave --

Mr. Roger Musgrave:

Good afternoon, at the risk of making those who I have studied rhetoric with shutter, I am choosing to begin by reading to you just 100 words or so from this morning's Dispatch which you may not have seen. It reads:

"Graduate Assistants Walk Out of Classes, Berkeley, California, Associated Press."

"With final exams in two weeks, a union of 3,200 graduate assistants walked out of University of California classrooms yesterday to press for recognition as employees. They are union-based here. The Association for Graduate Student Employees is affiliated with United Auto Workers. It is the vanguard of a movement challenging the view of graduate students as scholars living off stipends. The students say they are underpaid, overworked, and often forced to go without health and other benefits."

So what else is new, right. But it does make me feel a little less like a voice crying in the wilderness given the things I have emphasized this year in my reports. More importantly, we think that this kind of thing illustrates that the classical views of the academy are evolving. Graduate Associates most certainly recognize that they are primarily students. But once we reach the point where more than half of the University's teaching is done by Graduate Associates, we also believe that there is no questions but that they are employees as well. The IRS certainly won't entertain
May 4, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

discussion about whether the stipends are earned income. In essence, CGS asks that the University's administration and faculty keep in mind that while most of the discussion about compensation levels occurs in November because stipend increases are granted in January, it is a continuing concern and one that will not go away.

We actually consider ourselves very fortunate that a situation such as the one at Berkeley has not occurred here. We believe this is probably not the right way to resolve our disagreements. We don't wish to see the undergraduates in our classes hurt, but actually, that is exactly the point. Given our present structure of being paid $690 per month -- which works out to $6,210 for the academic year -- and being required to teach two sections of a class with 46 students each, which meets five days a week -- and that is a half-time load. While most GA's actually have a much better situation than that, that situation can exist. And we just ask that everyone keep it in mind, recognize it, and continue to be concerned with it.

We realize the benefits issue is very complex as is obvious by the discussion of faculty/staff benefits. Self-determination for graduate students may be a partial answer in a lot of cases. The National Association of Graduate and Professional students is now in final negotiations with an insurance carrier which will hopefully offer a nationwide insurance plan for graduate students. We recognize that we at Ohio State already have a reasonable student health insurance program, but we will be interested in seeing what the premium will be for the new NAGS plan. GA's this year at Ohio State were granted a 4 per cent salary increase and most are expected -- and find it impossible -- not to hold off campus employment to supplement that income. Yet, you have seen the double digit increases projected for the health insurance today. Graduate Associates also buy gasoline, and on and on and on. Folks have brought this up and said, "What's wrong with this picture?"

We hope the NAGS graduate student health insurance offering will not disrupt the enrollment figures dramatically at Ohio State. But if graduate students united can create a lower premium for each other, CGS will encourage our graduate students to participate in the plan. It is quite possible the final premium offered will be much higher than what we have at Ohio State and relatively few here would enroll, nonetheless, we like the idea of our graduate students having a choice. Perhaps there will be a higher deductible on the plan, but perhaps it may also a have a significantly higher major medical limit for those who need it. The other great benefit of this kind of activity is that there are a lot of graduate students across this country that have no health insurance available to them at all on their campuses, so we believe this is a national service that we can provide for other graduate students.

Related peripherally to this discussion, I won't be the CGS president next year, but I will be serving on a National Association of Graduate Students committee on labor and economic issues. At the very least, we hope we can gain a lot by exchanging information from campus to campus. Bob Bussle from Cornell will chair the committee and you will hear reports about our activities from the new CGS president.

Speaking of which, we had our elections this past Sunday and we are very pleased with our new officers. The vice president's position in CGS entails a lot of work and
May 4, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

little visibility. The Graduate Research Forum which occurred last month is run by our vice president. That position was filled this year by Luke Evans, who I thought was going to be here, but I don't think is. He has been elected our new president. I am sure he will be here next month so that I can introduce him to all of you. Luke is a Ph.D. candidate in Educational Policy and Leadership, and we look forward to your working with him next year. Our new vice president is Benetta Lucius, who served as the Council's secretary and acting vice president for one month this past year. Benetta is also enrolled in Educational Policy and Leadership. Our new secretary is Cynthia Carlson, enrolled in the Master's program in Natural Resources. And I have been accused of learning enough to see where the real power lies, and I have been elected to serve as treasurer for next year.

CGS is co-sponsoring the presentation of BRAIDS, a one act play telling the story of the riveting effects of AIDS on the black community in the United States. Performed by the theater company Living the Dream, Inc., it is being coordinated by the College of Social Work Student Association. It will be presented May 14 and 18 on our campus and we can provide more information if you are interested.

CGS is trying to get its office hardwired into the SONNET system, the on-campus computer networking facilities. We would like to have easy access to BITNET from our office to communicate with graduate student organizations and individuals elsewhere, and we would also like to be able to use E-Mail to communicate with our own campus constituency and perhaps institute a campus-wide graduate student bulletin board. We believe the technology isn't much good unless it is being used to serve people, and we hope we will be able to do our part soon.

Finally, we are very happy with the way our Graduate Research Forum went this year. The papers presented were uniformly impressive. We had quite a few guests in the audience, which sometimes we don't have. Everyone who presented their work gained good experience and we believe our faculty actually enjoyed participating themselves. I won't take the time to read the names of the winners in each program area to you, their names will appear in our next Graduate Voice. But do let me say that the judges in every area told us they had a difficult time in choosing one presentation in the area as the outstanding one. And in two areas the judges insisted that we present co-winners with the award. We do wish to thank the Graduate School and the Office of Research and Graduate Studies for their help in providing funds for the winners of the awards, the cost of the facilities, the judges' stipends, honoraria, and all the other little expenses we had to cover to pull the event off.

To close, I would like to add the Council of Graduate Students' best wishes and appreciation to Dr. Brand and Dr. Hollander.

Ms. Casto:

Roger, is this your last meeting?

Mr. Roger Musgrave:

I will be here for the next meeting. I get paid through the quarter, so I serve through the quarter.
May 4, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Casto:

Thank you. Athena --

Ms. Athena Yiamouyiannis:

Mr. Chairman, Mr. President, members of the Board of Trustees, good afternoon. I would like to begin my report of Undergraduate Student Government activities by telling you about Zoo Day. USG hosted the first ever Zoo Day as an educational awareness event for environmental and animal conservation issues. Undergraduate Student Government invited Jack Hanna, the director of the Columbus Zoo, and his animals out to The Ohio State University this past Tuesday. Originally we were going to have it at the Mirror Lake Amphitheater, but due to the inclement weather -- it was downpouring -- we had it inside at the Ohio Union Conference Theater. We had a great turnout. We had over 400 people in attendance. We had to turn people away and close the doors at that point. Jack Hanna brought a baby kangaroo, a hawk, an opposum, an owl, and some other animals. Everyone really did enjoy the event. The Lantern gave us great coverage. They ran an article and a picture the day of the event telling about it and also a follow up article on the next day on the front page of the Lantern. I have talked to Jack Hanna, and it looks promising for next year as well.

An upcoming event that USG is working on in conjunction with the Ohio Students Association was a rally that was to be planned here at The Ohio State University to go down to the Capital Building. Plans have been changed. The students are going to meet down at the State House instead, to lobby for more funding. A USG assembly resolution that is being researched in committee currently is on the Governor's tax initiative which may be put on the November ballot.

Another upcoming event that USG is involved with is hosting the Regional Campus Exchange Day. This is on Friday, May 12, from 10:30 a.m. to 2:30 p.m. Students from regional campuses will have an opportunity to come to the main campus to meet some students and get acquainted with the facilities and surroundings here. Originally this service was provided by the UVC (University College), but because of cost containment they have deleted the service from their programming. USG has picked it up this year and will hopefully continue to do so in future years.

This last year has gone very well for Scott Mounts, my vice president, and myself, as well as the other members of the Undergraduate Student Government. I would just like to recap some of the things that we have worked on over this past year. First of all, we had the Minority Affairs Reception this winter which Tyrone Alexander, after working with administrators, staff members and students through the entire quarter, compiled this. It was held in recognition of his efforts in this area and also in recognition of student organizations and other members of the University. Additionally, Jennifer Murray conducted a financial aid survey to address problems that students had on financial aid. The Undergraduate Student Government held a forum to help out with that problem. We addressed some women's affairs issues this past year. Assembly passed a resolution to address the low number of female faculty members at the full professor rank. Tuition increase was another issue that we addressed. With the rally on the Oval, it brought media attention and I think it addressed the students' concerns quite visibly. Also, we had for the first time at The Ohio State University two student Trustees to add to the group here.
May 4, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Yiamouyiannis: (contd)

It has been a very rewarding year for me. In addition to some of these successful programs that I have been able to be a part of, I have also been able to notice a few weaknesses in the program. I would like to share with you one of the problems that I am very much concerned with. This has to do with the process of the distribution of funds from the CSA Allocations Committee. First of all, there is a lack of funding. This year there was not enough money to be distributed to the groups. And I would hope that the President and administrators will see to it that maybe more compensation is awarded in this area. Because it is an important part of student life on campus.

In addition, I think the student representation needs to be enforced. On our committee there were a couple of people that were voting that were not supposed to be. So there was an imbalance in the number of faculty members to students voting. The problem was pointed out and was taken care of, but I think this just shows that maybe the whole process needs to be reviewed. And not only that, but the goals of the group need to be reemphasized to the entire group.

And more specifically, one problem which has been coming up every year, is that the Undergraduate Student Government is suppose to help vote on our personal budget as well as other student organization budgets. The money comes out of the same pot, so if we lobby for more for ourselves, we are taking away from the student organizations which we are supposed to be helping out as well. What I would suggest is that we work out some way where student government budgets are autonomous from student organizations. I have made the recommendation, the recommendation has been made in the past, but nothing has been changed. I think the problem is that every year we have a turnover in administration and the problem doesn't get taken care of. I am going to be leaving this as well as many other responsibilities in the hands of my successors. They are going to be working on some of these proposals this summer.

One of my successors, David Staub, who was elected President about two weeks ago, is in the audience with us. David, do you want to stand up? Bart Deems is his new Vice President. They do have a big job ahead of them, and I wish them the best of luck. The inauguration will take place May 17 in the Student Lounge at the Ohio Union at 4:30 p.m. and everyone is welcome to attend. Scott Mounts and myself have been meeting both with David and Bart on a regular basis to get them acquainted with the office, their responsibilities, and giving further insight into USG projects. We do look forward to the future growth of USG.

In closing, I would like to say that this has been a great opportunity to meet with everyone at the University with numerous students, faculty members, and administrators, and also you, the members of the Board of Trustees. I will miss everyone, but not too much because I will be coming back this fall and attending Graduate School here at Ohio State University in Sports Administration. Thank you.

Ms. Casto:

Athena, we have this document to present to you that says:

WHEREAS Athena Yiamouyiannis has served as president of the Undergraduate Student Government during the past year; and
Ms. Casto: (contd)

WHEREAS she has carried out an assignment in an exemplary manner; and

WHEREAS her leadership in representing the interest of students has been positive in nature as has been her communication with both the Board of Trustees and the Administration:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Athena Yiamouyiannis its sincere appreciation and gratitude for a job well done and conveys to her its best wishes for success in the future.

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mr. Teaford:

Today, Dr. Moser, who is the head of the Ohio Cooperative Extension Service, reported to us. He told us about an outside organizational review which had just been completed which was done by administrators from other universities across the country. He indicated to us that he was adopting virtually all of the recommendations of that review committee. A reorganization has really become necessary within Cooperative Extension because of the downsizing that has been the result of tightening budgets. This has really affected Cooperative Extension probably more than any other single part of the University.

Among the recommendations were that there should be significantly more coordination of state-wide programs, that there is a real need to develop better relationships between the Columbus faculty and the Extension faculty. Because, after all, one of the principal purposes of Cooperative Extension is the dissemination of research and of course it is the Columbus faculty that is doing much of that research.

Among the other recommendations was with regard to 4-H, which as you know is part of the Cooperative Extension mission. The recommendation was that faculty members from outside the Colleges of Agriculture and Home Economics should be utilized in order to work with the 4-H youth. Because today, of course, 4-H is almost as much an urban program as it is a rural one.

The committee also recommended that Cooperative Extension pay particular attention to the need for ethnic and cultural diversity within that agency. And they are, in fact, already implementing those suggestions.

(See Appendix XXXXI for complete text of the Organizational Review Team and the Organizational Review Recommendations, page 1173.)

--0--
May 4, 1989 meeting, Board of Trustees

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Berry:

The committee met this morning. We first heard and received the third quarter report on the status of the 1988-89 budget. This report shows an increase in estimated revenues and expenditures of $7.4 million, an increase of 0.7 per cent. Most of this adjustment is due to increases in restricted funds such as sponsored research and gifts. Also, the budget adjustments approved in January by the Hospitals Board are reflected in this report. I have talked with Mr. Ihrig about doing everything possible that he can to bring this up-to-date through May 3. And he thinks he can get it up over $1 billion so that Len can go out as the first chairman with a billion dollar budget! I thought I'd put that in.

During the first quarter of 1989, there were 29 waivers of competitive bidding requirements, which totaled some $2.6 million. These waivers were reviewed in accordance with the Board Policy. (See Appendix XXXII for complete text of The Ohio State University 1988-89 Current Funds Budget - 3rd Quarter Report, page 1183, and Appendix XXXIII for complete text of Waivers of Competitive Bidding Requirements - January - March 1989, page 1189.)

In addition to this report, the Committee is recommending for Board approval the resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-106

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for March 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of March 1989 be approved.

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

1097
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR MARCH 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>125</td>
<td>$7,888,284.00</td>
</tr>
<tr>
<td>Engineering Experiment Station 44</td>
<td></td>
<td>$557,700.00</td>
</tr>
<tr>
<td>Total</td>
<td>169</td>
<td>$8,445,984.00</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

The Hazael Edward Welton Endowment Fund
(Scholarship awards to Black and Hispanic students enrolled in the College of Optometry)

The Wendell D. and Helen R. Postle Scholarship Fund
(Scholarships - College of Dentistry)

Medical Director - Clinical Research Support Fund
(Support of clinical research projects)

The Rho Pi Phi Scholarship Fund in Pharmacy
(Scholarships)

The Thomas Stickley International Graduate Scholarship Fund
(Scholarships)

The Kenneth W. Reisch Excellence in Teaching Fund
(Sponsor a lecture or symposium - College of Agriculture)

Mary H. and J. Churchill Hodges Endowment Fund
(Scholarships - residents of counties served by the Tri State Alumni Club)

The Dorothy Jones Williams Memorial Scholarship Fund
(Scholarships - College of Business)

Change in Description of Named Fund

Arthur E. Baggs Memorial Fund
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - March 1989

Federal Research Contracts/Grants

$746,560.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Compact Range and Radar Cross Section Studies, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and L. Peters, Jr.), 1 February 1989 through 28 February 1990. (Project 761608 - Continuation)

$348,833.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Cornhill), 1 March 1989 through 28 February 1990. (Project 764727 - Continuation)

$256,991.00 Department of Health and Human Services, National Institute of Mental Health, Bethesda, Maryland, Caregivers of Alzheimer's Disease Victims: Stress and Mental Health, Department of Psychiatry (J. Kiecolt-Glaser) and Department of Microbiology and Immunology (M. R. Glaser), 1 April 1989 through 31 March 1990. (Project 765958 - Continuation)

$212,927.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Endotracheal Suctioning in Acutely Ill Adults, Department of Life Span Process (K. S. Stone), 1 April 1989 through 31 March 1990. (Project 765998 - Continuation)

$189,557.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, RNA Splicing in Neurospora Mitochondria, Department of Molecular Genetics and Department of Biochemistry (A. M. Lambowitz), 1 April 1989 through 31 March 1990. (Project 765596 - Continuation)

$188,244.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Cognitive Engineering in Aerospace Applications, Department of Industrial and Systems Engineering (D. D. Woods and P. J. Smith), 1 April 1989 through 31 March 1990. (Project 767386 - New)

$180,459.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Neoplastic Transformation of Human Epithelial Cells, Department of Physiological Chemistry (G. E. Milo), Comprehensive Cancer Center and Department of Microbiology (B. S. Zwilling), and Diagnostic Services (C. F. Shuler), 1 April 1989 through 31 March 1990. (Project 761756 - Continuation)

$173,639.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Chemistry of Novel Natural Inhibitors of Carcinogenesis, College of Pharmacy, (J. M. Cassady), 1 April 1989 through 31 March 1990. (Project 766665 - Continuation)

$166,571.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Unusual Biologically Active Terpenes, Department of Chemistry (L. A. Paquette), 1 April 1989 through 31 March 1990. (Project 763497 - Continuation)

$163,284.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cardio-pulmonary Actions -- Trimetocinol Analogs, College of Pharmacy (D. D. Miller and D. R. Feller), 1 April 1989 through 31 March 1990. (Project 761574 - Continuation)
Federal Research Contracts/Grants (contd)

$161,724.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Mechanism of Phospholipase A2, Department of Chemistry (M. D. Tsai), 1 April 1989 through 31 March 1990. (Project 767369 New)

$160,000.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Modification of the OSU/ESL Video Pulse Mine Detector to Eliminate Ground Contact, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 22 March 1989 through 22 March 1990. (Project 767388 New)

$158,937.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Interval Training and Cancer Patients' Functional Capacity, Department of Family and Community Nursing (M. G. MacVicar), 15 April 1989 through 31 March 1990. (Project 766682 - Continuation)

$156,600.00 - National Science Foundation, Washington, D.C., Syntheses and Studies of Selected Metal Carbonyl and Boron-Metal Carbonyl Clusters, Department of Chemistry (S. G. Shore), 1 September 1989 through 31 August 1990. (Project 766824 - Continuation)

$138,955.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neuromodulators in Cerebellar Circuitry, Department of Anatomy (G. A. Bishop), 1 March 1989 through 28 February 1990. (Project 763013 - Continuation)

$133,195.00 - National Science Foundation, Washington, D.C., Maintenance of the Bacillus Genetic Stock Center, Department of Biochemistry (D. H. Dean), 15 March 1989 through 28 February 1990. (Project 767330 - Continuation)

$132,222.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1988 through 30 November 1989. (Project 761196 - Continuation)

$124,966.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Biologically Active Alkaloids, Department of Chemistry (D. J. Hart), 1 April 1989 through 31 March 1990. (Project 762083 - Continuation)


$112,764.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Feline Retrovirus-Associated Endocrine Dysfunction, Department of Veterinary Pathobiology (J. L. Rojko, L. E. Mathes and C. A. Brooks), 1 March 1989 through 28 February 1990. (Project 767361 - New)
Federal Research Contracts/Grants (contd)

$110,937.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Regulation of Histidine Utilization in Streptomyces, Department of Microbiology (K. E. Kendrick), 1 April 1989 through 31 March 1990. (Project 767370 - New)


$103,335.00 - National Science Foundation, Washington, D.C., Enhancing Mathematics Through Technology Inservice, Department of Mathematics (F. Demana and B. K. Waits) and Department of Educational Theory and Practice (A. Osborne and G. Foley), 1 June 1989 through 31 May 1990. (Project 767372 - New)

$100,000.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Wave Interactions at Boundaries Separating Anisotropic Materials, Department of Welding Engineering (L. Adler), 1 April 1989 through 31 March 1990. (Project 764033 - Continuation)


$97,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Novel Ultrasonic Techniques for Inter-face Studies, Department of Welding Engineering (L. Adler), 1 April 1989 through 30 November 1989. (Project 766985 - Continuation)

$95,706.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Human Thrombin: Binding and Recognition Sites, Department of Chemistry (L. J. Berliner), 1 February 1989 through 31 January 1990. (Project 761742 - Continuation)

$84,876.00 - National Science Foundation, Washington, D.C., Orthogonal Polynomials and Their Applications, Department of Mathematics (P. Nevai), 1 January 1990 through 31 December 1990. (Project 766825 - Continuation)

$82,736.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Sertoli Cell-Germ Cell Surface Membrane Interactions, Department of Anatomy (R. M. DePhilip), 1 March 1989 through 28 February 1990. (Project 764825 - Continuation)

$81,063.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Struture, Function, and Dynamics of P-450 Cytochromes, College of Pharmacy (S. Black), 1 February 1989 through 31 January 1990. (Project 766583 - Continuation)

$76,737.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Conformational and Electrostatic Effects in Plastocyanin, Department of Biochemistry (E. L. Gross), 1 April 1989 through 31 March 1990. (Project 765991 - Continuation)
Federal Research Contracts/Grants (contd)

$76,000.00 - National Science Foundation, Washington, D.C., Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Techniques Development and Non-Biological Application, Chemical Instrumentation Center, Department of Chemistry and Department of Biochemistry (A. G. Marshall), 1 October 1989 through 30 September 1990. (Project 766684 - Continuation)

$75,591.00 - National Science Foundation, Washington, D.C., Curing of Low Shrinkage Unsaturated Polyester Resins in Reactions Processing, Department of Chemical Engineering (L. J. Lee), 1 March 1989 through 28 February 1990. (Project 767359 - New)

$75,000.00 - National Science Foundation, Washington, D.C., Low Temperature Electronic Properties of Conducting Solids, Department of Physics (J. C. Garland), 1 March 1989 through 28 February 1990. (Project 767331 - New)

$74,717.00 - Environmental Protection Agency, Washington, D.C., Promotion of Carcinogenesis: Role of Aberrant tRNA Modification, Department of Physiological Chemistry and Comprehensive Cancer Center (R. W. Trewyn), 8 March 1989 through 7 March 1991. (Project 764159 - Continuation)

$74,227.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, Physical and Mechanical Properties of Composite Materials, Department of Materials Science and Engineering (R. H. Wagoner and V. K. Tewary), 6 February 1989 through 5 February 1990. (Project 766671 - Continuation)

$71,240.00 - National Science Foundation, Washington, D.C., Summer Mathematics Program, Department of Mathematics (A. E. Ross, G. Edgar and D. Ray-Chaudhuri), 15 February 1989 through 30 June 1990. (Project 767333 - New)

$70,000.00 - National Science Foundation, Washington, D.C., Inelastic Light Scattering Studies of Quantum-Layered Semiconductors and Metallic Microstructures, Department of Physics (R. Sooryakumar), 1 November 1989 through 31 October 1990. (Project 766205 - Continuation)

$69,571.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Study of Powder Agglomeration in a Microgravity Experiment, Department of Materials Science and Engineering (J. D. Cawley), 24 May 1989 through 23 May 1990. (Project 765777 - Continuation)

$65,000.00 - National Science Foundation, Washington, D.C., Highly-Excited States of Atoms and Molecules, Department of Physics (R. D. Knight), 1 May 1989 through 30 June 1990. (Project 766887 - Continuation)


$55,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Adaptive Arrays for Satellite Communication, ElectroScience Laboratory, Department of Electrical Engineering (I. J. Gupta and E. K. Walton), 21 March 1989 through 30 June 1989. (Project 764040 - Continuation)
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$53,000.00 - National Science Foundation, Washington, D.C., Noise-Induced Turbulence in Superfluid Helium, Department of Physics (J. T. Tough), 1 November 1989 through 31 October 1990. (Project 766036 - Continuation)

$52,029.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, 44th Molecular Spectroscopy Symposium, Department of Physics (K. N. Rao), 6 March 1989 through 5 March 1992. (Project 767383 - New)

$51,844.00 - Department of Health and Human Services, National Library of Medicine, Bethesda, Maryland, Computer-Based Pathology Consultation, Department of Pathology (J. W. Smith), 1 March 1989 through 28 February 1990. (Project 764598 - Continuation)

$50,024.00 - National Science Foundation, Washington, D.C., Mesozoic and Cenozoic Kinematic Evolution of the Transantarctic Mountains, Byrd Polar Research Center and Department of Geology and Mineralogy (T. J. Wilson), 1 July 1989 through 31 December 1990. (Project 767387 - New)

$50,000.00 - National Science Foundation, Washington, D.C., Ohio Academic Resources Network (OARNET), Ohio Supercomputer Center (C. F. Bender and A. A. Brown), 15 March 1989 through 31 March 1990. (Project 767389 - New)


$39,500.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 1 March 1989 through 15 September 1989. (Project 766608 - Continuation)

$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Linguistics (M. E. Beckman), 1 September 1988 through 28 February 1990. (Project 766861 - Continuation)

$34,000.00 - National Security Council, Central Intelligence Agency, Washington, D.C., LDC Energy Data Base Collection, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (W. S. Chern), 1 April 1989 through 28 February 1990. (Project 766381 - Continuation)

$33,845.00 - National Science Foundation, Washington, D.C., Models of the Location of Hub Facilities, Department of Geography (M. E. O'Kelly), 1 March 1989 through 28 February 1990. (Project 767343 - New)

$26,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Computational Study of the Jet-in-the-Ground-Effect Flow with Dynamically Adaptive Grid, Department of Mechanical Engineering (S. Nakamura), 21 March 1989 through 20 March 1990. (Project 766675 - Continuation)

$22,056.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Comparison of Materials for Hybrid III Ribs, Department of Mechanical Engineering (J. A. Collins), 1 April 1989 through 30 September 1989. (Project 766989 - Continuation)

$21,800.00 - National Science Foundation, Washington, D.C., Social Psychophysiology Research Program: Phase II, Department of Psychology (J. T. Cacioppo), 1 February 1989 through 31 January 1990. (Project 767272 - New)

$21,000.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Gastric Function: Medullary Control, Department of Physiology (R. C. Rogers), 1 April 1989 through 31 March 1990. (Project 767391 - New)

$20,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Relegation for Decentralized Control, Department of Electrical Engineering (U. Ozguner), 1 March 1989 through 30 September 1989. (Project 767334 - New)

$19,475.00 - Department of Health and Human Services, Fogarty International Center, Bethesda, Maryland, EWAIF and Pulse-Ribbon Models of Auditory Perception, Division of Speech and Hearing (L. Feth), 9 March 1989 through 30 September 1989. (Project 767347 - New)

$9,910.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, Contact Stresses, Deformation, Film Thicknesses and Friction Torques in Lubricated Conjunctions, Department of Mechanical Engineering (B. J. Hamrock and K. Ishii), 1 October 1988 through 30 June 1989. (Project 767326 - New)

$9,529.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Studies of Petrified Paleozoic Fungi, Department of Botany (T. N. Taylor), 15 June 1989 through 31 January 1990. (Project 765204 - Continuation)

$8,000.00 - National Science Foundation, Washington, D.C., Enroute Flight Path Planning: Cooperative Performance of Flight Crews and Knowledge-Based Systems, Department of Industrial and Systems Engineering (P. J.
Federal Research Contracts/Grants (contd)

Smith) and Department of Aviation (C. E. McCoy), 1 February 1989 through 31 March 1989. (Project 766649 - Continuation)

$5,000.00 - National Science Foundation, Washington, D.C., Development and Plasticity of the Vertebrate Spinal Cord: Progress and Future Directions, Department of Anatomy (G. F. Martin, Jr.), 1 April 1989 through 31 March 1990. (Project 767360 - New)

$4,500.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Dentistry, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767355 - Continuation)

$3,598.00 - National Science Foundation, Washington, D.C., Do V-A Mycorrhizae Regulate Responses of Perennial Herbs to Forest Canopy Gaps?, Department of Botany (R. E. J. Boerner), 1 March 1989 through 30 September 1989. (Project 765303 Continuation)

$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Biological Sciences, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767354 - Continuation)

$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767351 - Continuation)

$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Pharmacy, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767353 - Continuation)

$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Veterinary Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767352 - Continuation)

TOTAL - FEDERAL AWARDS $6,562,863.00

State of Ohio Research Contracts/Grants

$140,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Acquisition of a Research Vessel, Department of Zoology (B. Vondracek), 12 September 1988 through 30 June 1989. (Project 767054 - Continuation)

$63,125.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Center for Real Estate Education and Research, Academic Faculty of Finance (R. L. Racster), 1 January 1989 through 31 December 1989. (Project 767319 - Continuation)
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Award Amount</th>
<th>State of Ohio, Grantor</th>
<th>Department, Location</th>
<th>Project Title</th>
<th>Start Date - End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>$34,000.00</td>
<td>Board of Regents, Columbus, Ohio</td>
<td>The Language of Soviet Media, Foreign Language Center (G. L. Ervin)</td>
<td>16 December 1988 through 30 September 1989. (Project 767356 - New)</td>
<td></td>
</tr>
<tr>
<td>$25,000.00</td>
<td>Department of Health, Columbus, Ohio</td>
<td>Early Intervention Update Survey, Nisonger Center (E. King and S. R. Schroeder)</td>
<td>1 July 1988 through 30 September 1988. (Project 767019 - New)</td>
<td></td>
</tr>
<tr>
<td>$21,000.00</td>
<td>Board of Regents, Columbus, Ohio</td>
<td>Enhancing the Learning of Japanese at the Middle School Level, Department of Educational Studies: Humanities, Science, Technological and Vocational (E. B. Bernhardt and K. Samimy)</td>
<td>16 December 1988 through 30 September 1989. (Project 767316 - New)</td>
<td></td>
</tr>
<tr>
<td>$18,991.00</td>
<td>Department of Education, Columbus, Ohio</td>
<td>Assisting the Ohio Division of Vocational Education Coordinate Linkages Between Occupational Work Adjustment Programs and Job Training Partnership Administration, Center on Education and Training for Employment (R. D. Ryan)</td>
<td>1 January 1989 through 30 June 1989. (Project 767378 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$17,875.00</td>
<td>Department of Natural Resources, Columbus, Ohio</td>
<td>Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler)</td>
<td>1 July 1988 through 30 June 1989. (Project 766336 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$11,739.00</td>
<td>Department of Natural Resources, Columbus, Ohio</td>
<td>Yellow Springs Urban/Rural Interface Project, School of Natural Resources (E. F. Epstein)</td>
<td>1 October 1988 through 30 September 1990. (Project 767374 - New)</td>
<td></td>
</tr>
<tr>
<td>$7,407.00</td>
<td>Department of Commerce, Columbus, Ohio</td>
<td>Agency Disclosure Program, Academic Faculty of Finance (R. L. Racster)</td>
<td>1 May 1988 through 31 December 1988. (Project 766767 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$3,000.00</td>
<td>Department of Natural Resources, Columbus, Ohio</td>
<td>Vegetation Inventory and Structural Studies of Gross Woods and Drew Woods State Nature Preserves and Synthesis of Data for the Development of a Framework for Assessing Significance of Forested Sites in Glaciated Ohio, Department of Botany (R. E. J. Boerner)</td>
<td>1 June 1989 through 1 June 1990. (Project 767338 - New)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL - STATE OF OHIO AWARDS $347,137.00**

Industrial Research Contracts/Grants

$107,300.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study of the Effect of Concomitant Rifampin Therapy on the Disposition of Fluconazole, Department of Pharmacology (N. Gerber), 16 September 1988 through 15 March 1989. (Project 765696 - Continuation)
Industrial Research Contracts/Grants (contd)

$70,000.00 - Pfizer, Inc., Groton, Connecticut, Multicenter Comparison of Fluconazole and Amphotericin B as Treatment for Acute Cryptococcal Meningitis, Department of Internal Medicine (S. L. Koletar), 1 December 1988 through 30 November 1990. (Project 767358 - New)

$57,908.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study of the Safety, Toleration, and Bioavailability of Two Topical Piroxicam Formulations in Healthy Volunteers, Department of Pharmacology (N. Gerber), 16 November 1988 through 15 May 1989. (Project 765696 - Continuation)

$47,046.00 - Kinaform Technology, Inc., Dayton, Ohio, Disopyramide Bioavailability Pilot Study, Department of Pharmacology (N. Gerber), 1 June 1988 through 31 May 1989. (Project 765696 - Continuation)

$40,000.00 - Perkin Elmer Corporation, Danbury, Connecticut, Engineering and Analytical Testing of Low Observable Principles, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 March 1989 through 31 July 1989. (Project 767393 - New)

$36,000.00 - NeoRx Corporation, Seattle, Washington, Production of Pseudomonas Exotoxin A Solution, Department of Microbiology (D. R. Galloway), 1 February 1989 through 31 March 1989. (Project 767384 - New)

$35,000.00 - Farmitalia Carlo Erba S.p.A., Milan, Italy, Synthesis of Novel Anthracycline Glycosides, Department of Chemistry (D. Horton), 1 March 1989 through 28 February 1990. (Project 767377 - New)

$30,000.00 - Adria Laboratories, Columbus, Ohio, Efficacy and Safety Trial of Toremifene Versus Tamoxifen in Postmenopausal Patients with Metastatic Breast Cancer, Department of Internal Medicine (B. C. Behrens), 1 October 1988 through 30 September 1989. (Project 767327 - New)

$25,320.00 - General Motors Corporation, Indianapolis, Indiana, Additions to a Model Test Program on the Gas Turbine Air Intake and Exhaust Systems for the DDG-52 Ship Service Gas Turbine Generators, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 19 January 1989 through 1 June 1989. (Project 767341 - Continuation)

$23,808.00 - Alcoa Defense Systems, Inc., San Diego, California, Dual Frequency Radome, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 8 December 1988 through 8 March 1989. (Project 767332 - New)

$23,000.00 - Xoma Corporation, Berkeley, California, Double-Blind, Randomized, Placebo-Controlled Group Comparative Study of the Safety and Efficacy of Xomen-E5 in Patients with Suspected Gram Negative Sepsis, Department of Internal Medicine (J. F. Plouffe), 1 March 1989 through 1 March 1990. (Project 767379 - New)

$20,493.00 - Calreco, Inc., Van Nuys, California, Effects of Ingestion of Calcium Salts on Urine pH, Struvite Activity, and Acid-Base Status in Cats, Department of Veterinary Clinical Sciences (C. A. Buffington), 1 February 1989 through 31 January 1990. (Project 767367 - New)
Industrial Research Contracts/Grants (contd)

$20,000.00 - E. I. DuPont de Nemours and Company, Wilmington, Delaware, A Phase II Multicenter Clinical Trial to Evaluate the Safety and Efficacy of a Single Weekly Schedule of Administration of Brequinar Sodium in Cancer Patients with Refractory, Department of Internal Medicine (E. H. Kraut), 1 February 1989 through 31 January 1991. (Project 767342 - New)

$15,422.00 - Navistar International Transportation Corporation, Columbus, Ohio, Winning Through Fitness, School of Health, Physical Education and Recreation (W. J. Rudman), 1 January 1989 through 31 December 1989. (Project 767298 - New)

$3,000.00 - Charles E. Merrill Publishing Company, Columbus, Ohio, Identifying Health Education Needs on the High School Level, School of Health, Physical Education and Recreation (P. Heit and L. B. Meeks), 1 January 1989 through 30 June 1989. (Project 767339 - New)

$1,800.00 - Medtronic, Inc., Minneapolis, Minnesota, Clinical Investigation of the Medtronic 9780 Memory MOD Software Cartridge, Department of Internal Medicine (C. J. Love), 1 October 1988 through 30 September 1989. (Project 767366 - New)

$1,000.00 - Chartwell Technologies, Inc., Columbus, Ohio, Bioequivalence Studies on Sustained Release Formulations, Department of Preventive Medicine (M. L. Moeschberger), 1 May 1988 through 31 December 1988. (Project 766893 - Continuation)

Personnel Services and Equipment - Intergraph Corporation, Reston, Virginia, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 13 March 1989 through 14 March 1991. (Project 766219 - Continuation) (Approximate Dollar Value - $581,000)

TOTAL - INDUSTRIAL AWARDS $ 557,097.00

Other Non-Federal Research Contracts/Grants

$77,256.00 - Columbus Human Services Department, Columbus, Ohio, The Columbus Neighborhood Technical Assistance Program, Department of City and Regional Planning (S. I. Gordon), 1 January 1989 through 31 December 1989. (Project 767292 Continuation)

$52,741.00 - Battelle Memorial Institute, Richland, Washington, A Proposal to Develop Oxidation-Resistant Niobium Alloys and Protective Coatings, Department of Materials Science and Engineering (R. A. Rapp), 9 February 1989 through 31 December 1989. (Project 767357 - New)

$41,650.00 - Southeastern Center for Electrical Engineering Education, St. Cloud, Florida, Objective Measures of Speech Intelligibility and Quality, Department of Electrical Engineering (A. Krishnamurthy), 1 January 1989 through 30 September 1989. (Project 767390 - New)

$39,634.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1988 through 30 June 1989. (Project 760113 - Continuation)

$39,592.00 - Purdue University, West Lafayette, Indiana, Inhibitors of Protein Myristoylation as Anticancer Drugs, College of Pharmacy (J. M. Cassady), 1 January 1989 through 31 December 1989. (Project 767376 - New)
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$33,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Characterization of Class 1 Heparin-Binding Growth Factor in Human Fetal Heart, Department of Internal Medicine (I. M. Chiu), 1 April 1989 through 31 March 1990. (Project 767364 - New)

$28,500.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Subcontract for the General Participant Training II Project in Indonesia, Office of International Affairs (D. G. McCloud), 1 April 1989 through 21 June 1989. (Project 766807 - Continuation)


$14,000.00 - Huron County Mental Health Board, Norwalk, Ohio, Special Parenting, Cooperative Extension Field Operations (B. J. Wurzel), 1 June 1988 through 30 June 1989. (Project 767363 - New)

$11,877.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study 8412, Department of Pathology (R. O'Toole), 25 November 1988 through 24 November 1989. (Project 765202 - Continuation)

$10,255.00 - National Council of Soviet and East European Research, Washington, D.C., Crisis Bargaining and Risk Management, Soviet Style, Department of Political Science (M. Kaw), 1 June 1989 through 31 May 1990. (Project 767385 New)

$10,000.00 - The Columbus Foundation, Columbus, Ohio, Health Issues Crisis and the Black Community, Department of Black Studies (M. Marable), 1 March 1989 through 28 February 1990. (Project 767348 - New)

$9,999.00 - Clinton County Public Schools, St. Johns, Michigan, Increasing the Effectiveness of Vocational-Technical Education in Clinton County Public Schools, Center on Education and Training for Employment (R. D. Ryan), 1 February 1989 through 30 September 1989. (Project 767336 - New)

$7,500.00 - Jesselson Foundation, New York, New York, Yemenite Jewry: Texts, Department of Judaic and Near Eastern Languages and Literatures (R. Ahroni), 1 July 1989 through 30 June 1990. (Project 765995 - Continuation)

$4,527.00 - Gallipolis Developmental Center, Gallipolis, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 2 January 1989 through 31 March 1989. (Project 767170 - Continuation)

$3,435.00 - Columbus Public Schools, Columbus, Ohio, Nepal Videodisc Project Extension, Department of Educational Policy and Leadership (M. A. Cambre), 16 February 1989 through 30 September 1989. (Project 767365 - New)

$1,969.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Mesothelioma Pathology Subcommittee, Department of Pathology (J. G. Lucas and S. E. Tuttle), 1 January 1988 through 31 December 1988. (Project 764837 Continuation)
$1,873.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 767080 - Continuation)

$1,725.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (J. F. Disinger), 1 July 1988 through 30 June 1989. (Project 765812 - Continuation)

$1,323.00 - Miami Valley Research Institute, Kettering, Ohio, Fiscal Year 1989 Artificial Intelligence Application Screenings, Department of Chemical Engineering (J. F. Davis), 30 January 1989 through 28 February 1989. (Project 767213 Continuation)

$1,250.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Referral Network, Nisonger Center (V. L. Reynolds), 1 November 1987 through 31 December 1988. (Project 765811 - Continuation)

$1,100.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, The Treatment of Primary Breast Cancer, Department of Surgery (W. B. Farrar), 1 February 1988 through 31 January 1989. (Project 763659 - Continuation)

$1,000.00 - Florida Power Corporation, Crystal River, Florida, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

$1,000.00 - Columbus Department of Health, Columbus, Ohio, Improving the Incidence of Breastfeeding in a WIC (Women, Infants, Children) Clinic, Department of Pediatrics (L. K. Grossman), 1 January 1989 through 30 September 1989. (Project 767329 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $ 421,187.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$35,288.00 from Ohio University, Athens, OH, for "Dry Sorbent Injection Technology for Coal Desulfurization," under the direction of the department of Chemical Engineering for the period January 1, 1989 through December 30, 1989. (529797)

$22,612.00 in additional budget from the Ohio Coal Development Office, Columbus, OH, for "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," under the direction of the department of Chemical Engineering for the period August 1, 1988 through July 31, 1989. (529980, Ext. 1)
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

State Sponsored Research and Development (contd)

$14,373.00 in additional budget from the Ohio Coal Development Office, Columbus, OH, for "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," under the direction of the department of Materials Science and Engineering for the period August 1, 1988 through July 31, 1989. (529981, Ext. 1)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $72,273.00

Industrial and Other Sponsored Research and Development

$100,264.00 from the NCR Corporation, Cambridge OH, for "Investigation of Wrist Motions Contributing to Carpal Tunnel Syndrome Risk in the Design of Retail Scanners," under the direction of the department of Industrial and Systems Engineering for the period March 1, 1989 through February 28, 1990. (529794)

$99,485.00 from Emerson and Cuming Corp., Canton, MA, for "Development of the Next Generation, High-Performance Broadband Absorber," under the direction of the department of Electrical Engineering for the period March 1, 1989 through February 28, 1990. (529792)

$60,000.00 from various industry for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$48,000.00 additional budget from Westvaco Corp., Covington VA, for "Diagnostic Systems for the Warsila Roll Handling System," under the direction of the department of Chemical Engineering for the period March 1, 1987 through December 31, 1989. (312429, Ext. 2)

$45,600.00 from Isottech, Inc., Miamisburg, OH, for "Isotopically Selective Chemical Reactions Initiated by Laser Radiation," under the direction of the department of Mechanical Engineering for the period October 1, 1988 through December 31, 1989. (529786)

$39,492.00 from 24 sponsors of 31 development projects through three departments/research areas of the College of Engineering.

$25,000.00 from various industry for Membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$18,670.00 from Columbia Gas System Service Corp., Columbus, OH, for "Improved Infrared Energy Transport Techniques," under the direction of the department of Mechanical Engineering for the period February 1, 1989 through December 31, 1989. (529798)

$18,500.00 from General Electric, Evandale, OH, for "Advanced Engine Graphical Analysis," under the direction of the department of Computer and Information Science for the period March 1, 1989 through November 30, 1989. (529793)

$17,000.00 additional funding from Edison Welding Institute, Columbus, OH for "Hydrogen Cracking and Related Effects in Steel," under the direction of the department of Welding Engineering for the period July 1, 1988 through June 30, 1989. (529324, Ext. 1)
$13,416.00 additional funding from Electric Power Research Institute, Palo Alto, CA, for "Influence of Hydrogen on PWSCC of Alloy 600 Tubing," under the direction of the department of Electrical Engineering for the period April 24, 1987 through February 28, 1989. (312412, Ext. 3)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $485,427.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Hazael Edward Welton Endowment Fund

The Hazael Edward Welton Endowment Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Hazael Edward Welton (B.S. Optometry '38), of Cleveland, Ohio.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship awards to Black and Hispanic students enrolled in the College of Optometry. Scholarship awards shall be based on financial need. Recipients shall be chosen by the University Committee on Student Financial Aid, in consultation with the Dean of the College of Optometry.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Optometry, in order to carry out the desire of the donor.

The Wendell D. and Helen R. Postle Scholarship Fund

The Wendell D. and Helen R. Postle Scholarship Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Wendell D. and Helen R. Postle Loan Fund and from additional gifts from Helen R. Postle of Columbus, Ohio, and family and friends. Dean Postle was Dean of the College of Dentistry from 1939 to his retirement in 1964. His leadership during those years was instrumental in building the College of Dentistry to its present position of leadership in dentistry.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarships in the College of Dentistry. Preference shall be given to students with a demonstrated financial need. Awards may also be made at the Dean's discretion to students based on academic merit. Awards shall be made in consultation with the University Committee on Student Financial Aid.
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Wendell D. and Helen R. Postle Scholarship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Medical Director - Clinical Research Support Fund

The Medical Director - Clinical Research Support Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Fraternal Order of Eagles, Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the support of clinical research projects such as heart research, cancer research, or other research activities deemed appropriate by the Medical Director of The Ohio State University Hospitals and the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Rho Pi Phi Scholarship Fund in Pharmacy

The Rho Pi Phi Scholarship Fund in Pharmacy was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Cleveland Chapter of Rho Pi Phi Fraternity.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support scholarships, student awards, or professional activities of the Rho Pi Phi Fraternity in the College of Pharmacy, as approved by the Dean of the College of Pharmacy, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Thomas Stickley
International Graduate Scholarship Fund

The Thomas Stickley International Graduate Scholarship Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mary Jane Sayre Stickley (B.S.Ed. '65); Development Alternatives, Inc. of Washington, D.C.; and friends of the late S. Thomas Stickley (former 4-H Extension Agent, B.S.Agr. '56, M.S. '64, Ph.D. '68).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to assist international students at the graduate level of study in rural finance. Preference will be given to students from Haiti and the Sahelian countries of West Africa whose major course of study is rural finance or agricultural economics. Selection of the recipient(s) shall be made by the Chairperson, Department of Agricultural Economics and Rural Sociology, in consultation with the Dean for Student Affairs in the College of Agriculture and the University Committee on Student Financial Aid. Insofar as is practical, Mary Jane Sayre Stickley (or her designee) shall be involved in the selection.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official who is then directly responsible for the College of Agriculture in order to carry out the desire of the donors.

The Kenneth W. Reisch Excellence in Teaching Fund

The Kenneth W. Reisch Excellence in Teaching Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the many friends and associates of Kenneth W. Reisch (M.S. '53, Ph.D. '56), faculty and students in the College of Agriculture, The Ohio State Floriculture/Landscape Horticulture Alumni Association, the Ohio Nurserymen's Association, and individual members of the horticulture industry.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to sponsor a lecture or symposium designed to enhance the quality of teaching among faculty in the College of Agriculture. These events will be coordinated by the office of the Associate Dean for Resident Instruction with final approval by the Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Kenneth W. Reisch Excellence in Teaching Fund (contd)

shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Mary H. and J. Churchill Hodges Endowment Fund

The Mary H. and J. Churchill Hodges Endowment Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mary H. and J. Churchill Hodges of Huntington, West Virginia.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarships for students attending The Ohio State University who demonstrate high academic ability. Preference shall be given to an entering freshman who is a resident of counties served by the Tri State Alumni Club. The selection of the student shall be made by the Tri State (Ohio, West Virginia, and Kentucky) Alumni Club Scholarship Committee as long as such scholarship committee or its successor exists, with the approval of the University Committee on Student Financial Aid. Should the above scholarship committee cease to exist, the University shall select a student from Cabell County, West Virginia, or Lawrence County, Ohio, with preference for graduates of their public high schools. If none are available in a given year, the income for that year shall be added to the principal.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Dorothy Jones Williams Memorial Scholarship Fund

The Dorothy Jones Williams Memorial Scholarship Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Kentucky Housing Corporation, friends and family, and business associates of Dorothy Jones Williams (B.S.Bus.Adm. '47), of Columbus, Ohio, and Lexington, Kentucky.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students enrolled in the College of Business with a major in accounting. Scholarship selection shall be made by the Chairperson of the Department of Accounting in coordination with the University Committee on Student Financial Aid.
May 4, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Dorothy Jones Williams Memorial Scholarship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Change in Description of Named Fund

Arthur E. Baggs Memorial Fund

The Arthur E. Baggs Memorial Fund was established February 14, 1961, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund in memory of Arthur E. Baggs (B.S.M.E. '39). The description was changed May 4, 1989.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of the Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a scholarship to an outstanding undergraduate student with interest in pursuing a major in the ceramic arts with the equivalent of high school chemistry as a prerequisite. Suggested studies are to include investigation of basic vessel tradition of glaze chemistry, craftsmanship, and aesthetics. The selection of the recipient will be made by the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors. It is the donors’ expressed desire to fund activities related to one of the following curricula in order of preference: industrial design, music, photography and cinema, art history.

---0---

Employment of Architect/Engineer and
Request for Construction Bids

Background

Equine Center

The planned addition of approximately 44,200 gross square feet on the west side of the existing Veterinary Hospital will provide a facility to house horses used in the College of Veterinary Medicine’s academic programs and privately owned patient horses. A trauma/surgical unit along with space to provide intensive care for critical equine patients will be a major component of this
May 4, 1989 meeting, Board of Trustees

Employment of Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

Equine Center (contd)

facility. Because of the value of the horses housed in the facility, special attention will be given to security, fire protection, and maintaining a high level of sanitation.

This addition will occupy most of the space between the Veterinary Hospital and Loop Road. Vehicle parking will be provided at the northwest corner of the site.

Funds for the project will be made available from University funds and private gifts, including a $1,500,000.00 gift from the Galbreath family. Construction costs are estimated at $4,150,000.00, and the total estimated project cost is $5,500,000.00.

Food Facility Freezer Addition - Stores and Receiving Building

In recent years, there has been an increasing use of frozen products in food preparation, and this trend has resulted in an increased need for freezer/cooler space. The inadequacy of the Food Facility freezer space has necessitated renting space from local wholesalers, frequently creating double handling of some food items.

This project will provide adequate facilities for the Food Facility operation by modifying and adding to the existing Stores and Receiving Building on Kenny Road. The freezer portion will be an addition to the east side of the building; an addition to the northeast side of the building will serve as a storage area for products that do not need controlled temperatures; and a portion of the building will be modified to house a cooler. This location provides a single, easily accessible location for large truck delivery of items to the Columbus Campus.

The Food Facility department receives, stores, and assembles the required combinations and quantities of food items ordered by its customers. The distribution of these orders also is done by the department with its delivery vehicles. The receiving and delivery of food related items will be done by using the docks to the Stores and Receiving building. Additionally, there will be an area in the building that will be used for staging the orders that are to be delivered. This area will be close to the freezer, cooler and warehouse sections. (See Appendix XXXIV for maps, page 1191.)

EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 89-107

EQUINE CENTER AND FOOD FACILITY FREEZER ADDITION - STORES AND RECEIVING BUILDING

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Equine Center and the Food Facility Freezer Addition to the Stores and Receiving Building.

WHEREAS the Equine Center will provide an addition of approximately 44,200 gross square feet on the west side of the existing Veterinary Hospital to house horses used in the College of Veterinary Medicine's academic programs and privately owned patient horses and will include a trauma/surgical unit along with space to provide intensive care for critical equine patients; and
WHEREAS the total estimated cost of this project is $5,500,000.00 with the estimated construction cost being $4,150,000.00, with funding provided from University funds and private gifts, including a $1,500,000.00 gift from the Galbreath family; and

WHEREAS the Food Facility Freezer Addition will provide an addition to the existing Stores and Receiving Building and modify existing space to house a cooler to provide a single, easily accessible location for large truck delivery of items to the Columbus Campus; and

WHEREAS $1,500,000.00 will be made available from University funds for this project, with the estimated construction cost being $1,200,000.00:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project, in conjunction with the Department of Administrative Services as appropriate, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works, or the University as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established State of Ohio and/or University procedures, and if satisfactory bids are received, to award contracts or recommend the award of contracts, as appropriate, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Employment of an Architect/Engineer and Request for Construction Bids

Background

PROJECTS FUNDED BY AMENDED HOUSE BILL 810

Amended House Bill 810, enacted by the 117th General Assembly made capital appropriations for projects at The Ohio State University's Columbus and Regional Campuses for 1988-90 biennium. The University desires to move forward with projects authorized by House Bill 810. Those projects, totaling $45,307,350.00, are as follows:

Line Item Projects

BIOSCIENCE/PARKS HALL ADDITION

An addition of approximately 115,000 gross square feet to connect Parks Hall (Pharmacy) and the Biological Sciences Building is needed to provide additional teaching and research space for both colleges. The addition will house a new combined library,
Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Line Item Projects (contd)

BIOSCIENCE/PARKS HALL ADDITION (contd)

computer center, chemical instrumentation center, fermentation laboratory, new research laboratories, and faculty offices.

Estimated Construction Cost: $17,200,000.00
Estimated Project Cost: $21,747,750.00

DENTAL INSTRUCTIONAL LAB IMPROVEMENTS

This project will renovate and enlarge Dental instructional laboratory spaces on the first and second floors of Postle Hall to accommodate dental assistance and clinical teaching. Funding will include $1,500,000.00 of University funds in addition to the appropriation of $3,000,000.00.

Estimated Construction Cost: $3,750,000.00
Estimated Project Cost: $4,500,000.00

EVANS LAB ADDITION

This project will provide an addition of approximately 25,000 gross square feet to temporarily house Chemistry activities that will be displaced during the McPherson Laboratory renovation and provide permanent space for expanded Chemistry programs following the McPherson renovation. This project includes remodeling of contiguous areas and complicated site work.

Estimated Construction Cost: $3,500,000.00
Estimated Project Cost: $4,387,000.00

LIBRARY BOOK WAREHOUSE

This project will provide facilities to house a high density storage warehouse which combines filing, retrieval, and delivery services to allow economical storage of low-activity library books, boxed materials, and administrative and academic records. The building also will include space for the University Archives which is a typical library structure containing areas for collections, readers, processing, and staff activities.

Estimated Construction Cost: $2,250,000.00
Estimated Project Cost: $3,317,000.00
May 4, 1989 meeting, Board of Trustees

Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Line Item Projects (contd)

NORTH STAR BUILDING ADDITION

This project will provide a building addition of approximately 4,000 gross square feet for the Ohio Education Broadcasting Network Commission. The new space will house the Department of Programming and Traffic, Fiscal Department, Radio and Reading Services Coordinator's Office, administrative and staff offices, and conference/teleconference space.

| Estimated Construction Cost: | $200,000.00 |
| Estimated Project Cost:     | $250,000.00 |

SEAGRANT SCHOOL PROJECT - SOUTH BASS AND GIBRALTAR ISLANDS

This project will provide shore line protection and erosion control for selected sites, repair and upgrade restrooms, replace roofs for two buildings, improve electrical power supply and distribution, improve water quality and distribution, and improve the islands' telecommunications systems.

| Estimated Construction Cost: | $720,000.00 |
| Estimated Project Cost:     | $1,000,000.00 |

Basic Renovation Projects - Columbus Campus

CLASSROOM IMPROVEMENTS

This project will continue the University's efforts to improve the quality of general purpose classrooms and lecture halls assigned to the University's Classroom Pool. The project includes renovating, improving, and/or replacing seating, acoustics, audio/video systems, projection booths, chalkboards, ceilings, lighting, and flooring in Independence Hall Room 100, Hitchcock Hall Room 131, and Hughes Hall Room 100.

| Estimated Construction Cost: | $474,375.00 |
| Estimated Project Cost:     | $575,000.00 |

ROOF REPLACEMENTS

This project will replace roofing, insulation, and flashing on the Ohio Legal Center, Stillman Hall, Arps Hall, Agricultural Administration Building, and Watts Hall.

| Estimated Construction Cost: | $612,500.00 |
| Estimated Project Cost:     | $735,000.00 |
May 4, 1989 meeting, Board of Trustees

Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Basic Renovation Projects - Columbus Campus (contd)

MASONRY IMPROVEMENTS

This project will renovate the damaged and deteriorated exterior masonry on Bricker Hall parapet, Botany and Zoology Building, Campbell Hall, Pomerene Hall, and Cockins Hall, and repair the interior structural concrete in Koffolt Laboratory.

Estimated Construction Cost: $ 616,667.00
Estimated Project Cost: $ 740,000.00

WINDOW REPLACEMENTS

This project will reduce energy losses and improve building comfort by replacing deteriorated window units in Page Hall, Robinson Laboratory, and Cockins Hall.

Estimated Construction Cost: $ 337,500.00
Estimated Project Cost: $ 405,000.00

CAMPUS ENERGY CONTROLS (HVAC SYSTEMS)

This project continues the work begun in previous biennia to provide better environmental control and reduce energy consumption by converting the control functions for HVAC equipment to direct digital control. Buildings identified in priority order are Baker Systems Engineering, Botany and Zoology Building, Cunz Hall, William Oxley Thompson Library, Robinson Laboratory, Campbell Hall, and University Hall.

Estimated Construction Cost: $ 205,000.00
Estimated Project Cost: $ 250,000.00

ELEVATOR REPLACEMENTS

This project will replace component parts and/or improve performance of passenger elevators in Cockins Hall, Caldwell Laboratory, Botany and Zoology Building, and Postle Hall.

Estimated Construction Cost: $ 525,009.00
Estimated Project Cost: $ 630,000.00
Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Basic Renovation Projects - Columbus Campus (contd)

REFUSE FACILITY UPGRADING

This project will improve the University's ability to handle and compact trash at a central location on campus to help control disposal costs through a more efficient operation.

Estimated Construction Cost: $ 75,300.00
Estimated Equipment Cost: $ 61,900.00
Estimated Project Cost: $ 150,000.00

MECHANICAL IMPROVEMENTS

This project will upgrade the building environments and improve occupants' comfort by providing modifications and/or replacements of building HVAC systems in Kinnear Road Center Building A, Wiseman Hall, Dreese Laboratory, Cunz Hall, Agricultural Administration Building, Graves Hall, Evans Laboratory, Orton Hall Library, and William Oxley Thompson Library.

Estimated Construction Cost: $ 1,191,687.00
Estimated Project Cost: $ 1,430,000.00

VETERINARY HOSPITAL SPRINKLER SYSTEM FOR LARGE ANIMAL WARDS

This project will provide a fire-suppression sprinkler system to protect against fire and smoke damage to the building and occupants of the large animal wards.

Estimated Construction Cost: $ 120,500.00
Estimated Project Cost: $ 140,000.00

CHILLER REPLACEMENTS

This project will replace old absorption/centrifugal chillers with new energy efficient centrifugal units with associated piping, pumps, and electrical service in Sisson Hall, Wiseman Hall, and Civil and Aeronautical Engineering Building.

Estimated Construction Cost: $ 400,000.00
Estimated Project Cost: $ 480,000.00
May 4, 1989 meeting, Board of Trustees

Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Basic Renovation Projects - Columbus Campus (contd)

SITE RENOVATION

This project will renovate the site bounded by Woodruff Avenue on the north, High Street on the east, College Road on the west and 17th Avenue on the south by installing plants, walls, plazas, planters, walks, lighting, and drainage systems.

Estimated Construction Cost: $235,600.00
Estimated Project Cost: $250,000.00

BRIDGE AND STREET IMPROVEMENTS

This project will close 17th Avenue and convert it to a pedestrian mall; replace existing concrete walks on High Street from Woodruff to West 11th Avenue, including relocation of bus shelters and installation of new plantings and site furniture; rebuild existing deteriorated Fyffe Road from Lane Avenue to Buckeye Village; repair concrete curbs, walls, and walls and add a waterproofing membrane on the Woody Hayes Drive bridge over Olentangy River and Olentangy River Road; replace West Campus pedestrian bridges, which have deteriorated due to water penetration and salt damage, with prefabricated steel structures; and repair and resurface approximately 4,800 square yards of asphalt paving on the Fawcett Center for Tomorrow Loop Road from Olentangy River Road to Argyll Street.

Estimated Construction Cost: $950,000.00
Estimated Project Cost: $1,050,000.00

Basic Renovation Projects - Regional Campuses

MANSFIELD - FOUNDERS AUDITORIUM RENOVATION

This project will extensively renovate the multipurpose Founders Auditorium. The renovation includes repair and re-upholstery of 400 seats, painting the floor, stage walls, and light booth, carpeting the aisles, and construction of a box office in the lobby.

Estimated Construction Cost: $95,000.00
Estimated Project Cost: $100,000.00

MANSFIELD - UTILITY IMPROVEMENTS

This project will install computerized controls for HVAC systems in Ovalwood and Bromfield Halls. The controls will enable the HVAC systems to be turned on and off automatically at preset times and provide for manual operation when needed at specific times.
May 4, 1989 meeting, Board of Trustees

Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Basic Renovation Projects - Regional Campuses (contd)

MANSFIELD - UTILITY IMPROVEMENTS (contd)

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Estimated Construction Cost</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANSFIELD - ROADWAY AND PARKING LOT REPAIRS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This project will resurface the west entrance drive and parking lot.</td>
<td>$ 45,000.00</td>
<td>$ 53,000.00</td>
</tr>
<tr>
<td>Estimated Construction Cost:</td>
<td>$ 91,000.00</td>
<td>$ 107,000.00</td>
</tr>
<tr>
<td>Estimated Project Cost:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LIMA - ROOF AND MASONRY REPAIRS

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Estimated Construction Cost</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIMA - PARKING LOT LIGHTING UPGRADE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This project will replace the roof, flashing, and deteriorated mortar joints to the J. McLean Reed Student Activities Building and Galvin Hall.</td>
<td>$ 155,000.00</td>
<td>$ 170,000.00</td>
</tr>
<tr>
<td>Estimated Construction Cost:</td>
<td>$ 43,000.00</td>
<td>$ 51,600.00</td>
</tr>
<tr>
<td>Estimated Project Cost:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NEWARK - GROUNDS IMPROVEMENTS

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Estimated Construction Cost</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEWARK - GROUNDS IMPROVEMENTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This project will construct an access road from the southeast corner of the campus to the existing University Drive and replace an existing diversion ditch with underground drainage. Construction of two lakes, an outdoor amphitheater south of Adena Hall, and a pedestrian footbridge to provide access to the 19 acre recreation area on Sharon Valley Road also will be accomplished if additional funding becomes available.</td>
<td>$ 420,000.00</td>
<td>$ 500,000.00</td>
</tr>
<tr>
<td>Estimated Construction Cost:</td>
<td>$ 420,000.00</td>
<td>$ 500,000.00</td>
</tr>
<tr>
<td>Estimated Project Cost:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
May 4, 1989 meeting, Board of Trustees

Employment of an Architect/Engineer and
Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Supplemental Renovation Projects

HAGERTY HALL, ROOM 100

This project will continue the University's efforts to improve the quality of general purpose classrooms and lecture halls assigned to the University's Classroom Pool. The project includes renovating, improving, and/or replacing seating, acoustics, audio/video systems, projection booths, chalkboards, ceilings, lighting, and flooring in Hagerty Hall Room 100.

Estimated Construction Cost: $ 288,750.00
Estimated Project Cost: $ 350,000.00

CAMPBELL HALL

This project is the second phase of a project to remodel and renovate a series of existing teaching and research laboratories used by the College of Home Economics in Campbell Hall.

Estimated Construction Cost: $ 333,915.00
Estimated Project Cost: $ 394,000.00

MACQUIGG LABORATORY

This project will replace a 22 year old chiller with a new energy efficient centrifugal unit serving MacQuigg Laboratory.

Estimated Construction Cost: $ 308,333.50
Estimated Project Cost: $ 370,000.00

BROWN HALL ROOF REPLACEMENT

This project will replace roofing, metal flashing, and down spouting on Brown Hall.

Estimated Construction Cost: $ 312,500.00
Estimated Project Cost: $ 375,000.00

MCPherson Laboratory RooF REPLACEMENT

This project will replace roofing, metal flashing, and down spouting on McPherson Laboratory.
May 4, 1989 meeting, Board of Trustees

Employment of an Architect/Engineer and Request for Construction Bids (contd)

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Supplemental Renovation Projects (contd)

MCPEHERSON LABORATORY ROOF REPLACEMENT (contd)

Estimated Construction Cost: $ 250,000.00
Estimated Project Cost: $ 300,000.00

SULLIVANT HALL RENOVATION, PHASE II

This phase of the Sullivant Hall renovation will replace the roof and elevator, modify air supply systems, and replace air terminal boxes.

Estimated Construction Cost: $ 425,000.00
Estimated Project Cost: $ 500,000.00

(See Appendix XXXXV for maps, page 1195.)

EMPLOYMENT OF ARCHITECT/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 89-108

PROJECTS FUNDED BY AMENDED HOUSE BILL 810

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for certain capital projects for which funds were appropriated in Amended House Bill 810.

WHEREAS Amended House Bill 810, enacted by the 117th General Assembly, appropriated funds for the 1988-90 biennium for capital projects at The Ohio State University's Columbus and Regional Campuses; and

WHEREAS the following University projects are planned from funds appropriated in Amended House Bill 810:

LINE ITEM PROJECTS

Bioscience/Parks Hall Addition $21,747,750
Dental Instructional Lab Improvements 4,500,000
Evans Lab Addition 4,387,000
Library Book Warehouse 3,317,000
North Star Building Addition 250,000
Seagrants School Projects - South Bass and Gibraltar Islands 1,000,000
May 4, 1989 meeting, Board of Trustees

EMPLOYMENT OF ARCHITECT/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

BASIC RENOVATION PROJECTS - COLUMBUS CAMPUS

Classroom Improvements $ 575,000
Roof Replacements 735,000
Masonry Improvements 740,000
Window Replacements 405,000
Campus Energy Controls (HVAC Systems) 250,000
Elevator Replacements 630,000
Refuse Facility Upgrading 150,000
Mechanical Improvements 1,430,000
Veterinary Hospital Sprinkler System for Large Animal Wards 140,000
Chiller Replacements 480,000
Site Renovation 250,000
Bridge and Street Improvements 1,050,000

BASIC RENOVATION PROJECTS - REGIONAL CAMPUSES

Mansfield - Founders Auditorium Renovation $ 100,000
Mansfield - Utility Improvements 53,000
Mansfield - Road and Parking Lot Repairs 107,000
Lima - Roof and Masonry Repairs 170,000
Lima - Parking Lot Lighting Upgrade 51,600
Newark - Grounds Improvements 500,000

SUPPLEMENTAL RENOVATION PROJECTS

Hagerty Hall, Room 100 $ 350,000
Campbell Hall 394,000
MacQuigg Laboratory 370,000
Brown Hall Roof Replacement 375,000
McPherson Lab Roof Replacement 300,000
Sullivant Hall Renovation, Phase II 500,000

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, in conjunction with the Department of Administrative Services as appropriate, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works, or the University as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established State of Ohio and/or University procedures, and if satisfactory bids are received, to award contracts or recommend the award of contracts, as appropriate, with all actions to be reported to this Board at the appropriate time.
EMPLOYMENT OF ARCHITECT/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix XXXVI for a complete tabulation of bids on all projects and locator maps, page 1219). Amounts shown with an * include accepted alternates.)

Hamilton Hall Renovation

This project provides for the complete renovation of Hamilton Hall including the Anatomy Morgue, solvent and equipment storage areas, Gross Anatomy labs, lecture halls, Physiology suite, and research labs and offices for Physiology and Physiological Chemistry. The total project cost is $16,936,400.00; funding is provided from State capital appropriations (House Bill 552, Senate Bill 386, and House Bill 810) and University funds. The estimated completion date is July 1991. Contracts awarded are as follows:

General Contract: Frank Messer & Sons, Cincinnati, Ohio

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Protection</td>
<td>$4,915,000.00</td>
<td>$6,769,109.00</td>
</tr>
<tr>
<td>Plumbing</td>
<td>$1,526,900.00</td>
<td>$1,177,904.00</td>
</tr>
<tr>
<td>HVAC</td>
<td>$3,310,900.00</td>
<td>$4,140,565.00</td>
</tr>
</tbody>
</table>

+Plumbing Contract is in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
May 4, 1989 meeting, Board of Trustees

**Report of Award of Contracts and Establishment of Contingency Funds (contd)**

**Background (contd)**

**Hamilton Hall Renovation (contd)**

<table>
<thead>
<tr>
<th>Electric Contract:</th>
<th>Royal Electric Construction, Columbus, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount:</td>
<td>$1,249,620.00 *</td>
</tr>
<tr>
<td>Estimate:</td>
<td>$1,776,325.00 *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finishes Contract:</th>
<th>Willima Cargile Contractor, Cincinnati, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount:</td>
<td>$1,490,000.00 *</td>
</tr>
<tr>
<td>Estimate:</td>
<td>$1,659,562.00 *</td>
</tr>
</tbody>
</table>

**Total All Contracts:** $12,663,856.00 *

Contingency Allowance: $1,139,748.39

(9% of construction cost)

**Total Project Cost:** $16,936,400.00

**Postle Hall Oral Biology Laboratory**

This project provides for the remodeling of a series of research laboratories used by the Section of Oral Biology in the College of Dentistry located on the fourth floor of Postle Hall. The total project cost is $409,000.00; funding is provided from State capital appropriations (Senate Bill 386) and University funds. The estimated completion date is September 1989. Contracts awarded are as follows:

<table>
<thead>
<tr>
<th>General Contract:</th>
<th>Ed Ross Construction, Westerville, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount:</td>
<td>$146,045.00 *</td>
</tr>
<tr>
<td>Estimate:</td>
<td>$177,000.00 *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract:</th>
<th>Marco Plumbing, Columbus, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount:</td>
<td>$18,370.00</td>
</tr>
<tr>
<td>Estimate:</td>
<td>$15,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC Contract:</th>
<th>J. A. Guy, Dublin, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount:</td>
<td>$122,300.00</td>
</tr>
<tr>
<td>Estimate:</td>
<td>$115,000.00</td>
</tr>
</tbody>
</table>
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 89-109

HAMILTON HALL RENOVATION
POSTLE HALL ORAL BIOLOGY LABORATORY
ST. JOHN ARENA - ROOF REPLACEMENT

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

WHEREAS resolutions adopted by the Board of Trustees on July 10, 1981, and July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of
May 4, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

HAMilton HALL RENOVATION
POSTLE HALL ORAL BIOLOGY LABORATORY
ST. JOHN ARENA - ROOF REPLACEMENT (contd)

contracts for the following projects: Hamilton Hall Renovation and Postle Hall Oral Biology Laboratory; and

WHEREAS a resolution adopted by the Board of Trustees on May 5, 1988, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following project: St. John Arena - Roof Replacement:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Hamilton Hall Renovation, Postle Hall Oral Biology Laboratory, and St. John Arena - Roof Replacements projects is hereby accepted.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Sale of Real Property
760 Beautyview Court, Columbus, OH

Background

Location and Description

The property consists of approximately 0.23 acres of improved real property located at 760 Beautyview Court in northwest Columbus. The property is located off Olentangy River Road approximately four miles from the University's Columbus Campus. There is a brick and stucco ranch house (approximately 1,688 square feet) with basement (300 square feet of finished space) and attached garage. The house and grounds have been well maintained and are in excellent condition.

Gift of the Property

The property previously was owned by Dr. Francis B. McCormick, Professor Emeritus of Agricultural Economics. He died in February 1986, and in his Will, Professor McCormick devised this property and a condominium in Florida to the University, subject to a life estate in both properties to his widow, Marie Orton McCormick. His Will also bequeathed to the University the net proceeds of a life insurance policy, again subject to a life interest through a charitable remainder annuity trust to benefit Mrs. McCormick.

The University and Mrs. McCormick negotiated a settlement of the parties' respective interests in the estate. Under that settlement, the University received fee simple title to the Columbus property and the net proceeds of the insurance policy after payment of taxes and legal fees. That net amount was approximately $45,000.00. The Board of Trustees accepted this gift in July 1988, and title to the Columbus property was transferred later that same month.
May 4, 1989 meeting, Board of Trustees

Sale of Real Property
760 Beautyview Court, Columbus, OH (contd)

Background (contd)

Appraisal and Offer

An MAI appraisal done by HER Appraisal Services in September 1988, valued the property at $100,000.00.

Joyce Ashbaugh of Columbus, Ohio, has offered to purchase the property for $114,500.00.

Use of the Proceeds from the Sale

Under the terms of Professor McCormick’s Will, the net proceeds from the sale of the property and the life insurance policy will be used to establish the Francis B. McCormick Professorship in Agricultural Economics. If sufficient funds are not accumulated to fund the Professorship, the proceeds will be used to support the existing McCormick Undergraduate Scholarship in Agricultural Economics. (See Appendix XXXXVII for map on Sale of Real Property at 760 Beautyview Court, Columbus, Ohio, page 1229.)

SALE OF REAL PROPERTY
760 BEAUTYVIEW COURT, COLUMBUS, OHIO

Resolution No. 89-110

Synopsis: The Fiscal Affairs Committee recommended the sale of real property at 760 Beautyview Court in Columbus, Ohio

WHEREAS in July 1988, the Board of Trustees of The Ohio State University acquired by gift from the Estate of Francis B. McCormick, Professor Emeritus of Agricultural Economics, the property located at 760 Beautyview Court in Columbus, Ohio; and

WHEREAS under the terms of Professor McCormick’s Will, the property is to be sold and the net proceeds used to establish the Francis B. McCormick Professorship in Agricultural Economics or to support the existing McCormick Undergraduate Scholarship in Agricultural Economics; and

WHEREAS Joyce Ashbaugh of Columbus, Ohio, has offered to purchase this property for $114,500.00; and

WHEREAS the appropriate University offices have determined that this sale of the property is in the best interest of the University, and it is the desire of this Board to accept the offer of Joyce Ashbaugh and to sell all of the Board’s right, title, and interest in and to this property:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees of The Ohio State University, to sell all of the University’s right, title, and interest in and to this property to Joyce Ashbaugh at a price of $114,500.00 upon such terms and conditions as are deemed to be in the best interest of the University.

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

1132
May 4, 1989 meeting, Board of Trustees

Purchase of Real Property
Cranston Center
1501 Nell Avenue, Et Al., Columbus, Ohio

Background

Location and Description

The property consists of three parcels, totaling approximately 1.9 acres, located at the southwest corner of the intersection of Neil Avenue and West Eighth Avenue, just south of the University's Columbus Campus.

The first parcel (approximately 0.7 acre), located at 1501 Neil Avenue, has a three-story office building of brick and solar glass over steel frame construction. The building, constructed in 1974, has approximately 17,200 usable square feet and is in good condition. The parcel is zoned "C-2" for commercial office use.

The second parcel (approximately 0.6 acre), located at 1478 Pennsylvania Avenue, is just west of the first parcel on the other side of an alley. It consists of a one and two story brick building, constructed in 1974, in good condition; the building has 15 efficiency apartment units. This parcel also is zoned "C-2."

The third parcel (approximately 0.6 acre) is a parking lot located on the west side of Pennsylvania Avenue opposite the 1478 address. The lot is zoned "P-1" for private parking and has approximately 65 spaces. (There are an additional 25-30 parking spaces on the other two parcels as well.)

The properties have been owned by Cranston Center, Ltd. Recently, Trustcorp Bank, Ohio, the holder of a mortgage note, has begun negotiations with Cranston Center, Ltd. to acquire ownership of the properties. Trustcorp took possession of the properties in April 1989. The properties are now vacant.

Appraisals and Purchase Price

An MAI appraisal done by James R. Horner & Associates in June 1988, valued the property at $1,750,000.00. Another MAI appraisal by The Robert Weiler Company done in May 1988, valued the property at $1,650,000.00. An MAI review appraisal in December 1988, by Daniel Billingsley of the Huntington Mortgage Company also placed the value of the property at $1,750,000.00.

For some time the University has been negotiating with Cranston Center, Ltd., and now with Trustcorp for the purchase of the property, and Trustcorp has agreed to a purchase price of $1,750,000.00.

Funds for the purchase will come from a $3,000,000.00 appropriation to the University in Amended House Bill 810, enacted by the 117th General Assembly. That appropriation specifically is for the purchase and renovation of the property, and the remainder of the appropriated funds will be used for necessary renovation work.

Use of the Property

The property will be used to house the Mershon Center, which now occupies space in Oxley Hall and two buildings on West Tenth Avenue, and other academic and support programs. (See Appendix XXXVIII for map on Purchase of Real Property at Cranston Center, Columbus, Ohio, page 1231.)
May 4, 1989 meeting, Board of Trustees

PURCHASE OF REAL PROPERTY
CRANSTON CENTER
1501 NEIL AVENUE, ET AL., COLUMBUS, OHIO

Resolution No. 89-111

Synopsis: The Fiscal Affairs Committee recommended the purchase of the Cranston Center in Columbus, Ohio.

WHEREAS The Ohio State University desires to acquire approximately 1.9 acres of improved real property in Columbus, Ohio, which property consists of three separate parcels located at 1501 Neil Avenue, 1478 Pennsylvania Avenue, and a parking lot on the west side of Pennsylvania Avenue opposite the 1478 address, all collectively known as the Cranston Center; and

WHEREAS Amended House Bill 810, enacted by the 117th General Assembly, appropriated $3,000,000.00 to the University for the purchase and renovation of this property; and

WHEREAS this property has an appraised value of $1,750,000.00, and the appropriate University offices have determined that the purchase of this property at a price not to exceed the appraised value is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the State of Ohio for the use of The Ohio State University, the property known as the Cranston Center, consisting of the three parcels described above, at a price not to exceed $1,750,000.00 and upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY

Resolution No. 89-112

Synopsis: The Fiscal Affairs Committee recommended the renewal of an underground electric cable and substation easement to Columbus Southern Power Company.

WHEREAS in 1973 the University granted Columbus Southern Power Company a 15-year easement consisting of strips of land, one being 25 feet in wide and 2,000 feet in length and the other being 10 feet in width and 400 feet in length, for installation of underground conduit lines, and an approximately 0.75 acre tract of land for an electric substation on property located near King Avenue and along the east side of the Olentangy River; and

WHEREAS this easement has expired and Columbus Southern Power Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS this easement serves University property; and
May 4, 1989 meeting, Board of Trustees

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY (contd)

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXVIII for map of Columbus Southern Power Company Easement Renewal, page 1233.)

--0--

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY

Resolution No. 89-113

Synopsis: The Fiscal Affairs committee recommended the renewal of an underground electric cable easement to Columbus Southern Power Company at The Ohio State University Golf Course.

WHEREAS in 1974 the University granted Columbus Southern Power Company a 15-year easement consisting of two strips of land, one being 10 feet in width and 40 feet in length and the other being 5 feet in width and 20 feet in length for underground electric cables at The Ohio State University Golf Course at Kenny and McCoy Roads; and

WHEREAS this easement has expired, and Columbus Southern Power Company has requested a renewal of the for a period of 15 years; and

WHEREAS this easement serves private property and Columbus Southern Power Company agrees to compensate the University with a lump sum payment of $500.00 in consideration of the granting of this easement; and

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
May 4, 1989 meeting, Board of Trustees

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY (contd)

(See Appendix L for map of the Columbus Southern Power Company Easement Renewal at The Ohio State University Golf Course, page 1235.)

--0--

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY
Resolution No. 89-114

Synopsis: The Fiscal Affairs Committee recommended the authorization to grant an electric line easement to Columbus Southern Power Company.

WHEREAS the Columbus Southern Power Company has requested a 15-year easement consisting of strips of land 20 feet wide and approximately 1,600 feet in length for the installation of electric service to the Piketon Agricultural Research and Extension Center located in Pike County, Ohio, and operated by the Ohio Agricultural Research and Development Center; and

WHEREAS the easement will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LI for map of the Columbus Southern Power Company Easement at the Piketon Agricultural Research and Extension Center, Pike County, Ohio, page 1237.)

--0--

Mr. Scott:

I would like to introduce this presentation covering the health care crisis in our society and, more importantly, how that problem impacts The Ohio State University. First, I believe it would be helpful to sketch out for you what a great many people perceive as conditions threatening the nation's health care system. Several forces have shaped our health care system over time, including provider interest, patient interest, utilization, new and exotic technology, costly government mandates and litigation to suggest only a few. Given these forces it really should not come as a surprise that The Ohio State University, like Chrysler, GM, Ford, and other industries, is now confronted with the major challenge of finding ways to trim costs in health care without diminishing the quality of its health care benefits.
May 4, 1989 meeting, Board of Trustees
Mr. Scott: (contd)

According to a study that was published by the Wyatt Company, health care costs in America will have increased 1000 per cent between 1970 and 1990. Further it is noted that 11 per cent of our Gross National Product is consumed by health care costs. Translated into dollars, that is roughly $550 billion. Not withstanding these staggering costs, some experts have noted that approximately 37 million Americans do not have health care insurance. Nonetheless, employers such as Ohio State and others are shouldering a major portion of the burden through health care insurance provided for staff and faculty in this instance.

What is causing the dramatic increase? The Wyatt article noted that the explanation can be found in part in the general complexities and changes in American society in the 1980's. They noted particularly that we are a "graying society." It was also noted that the advance of expensive modern technology, increased utilization, the AIDS crisis, mental health and substance abuse treatments all contribute to what some people perceive as a hemorrhaging in the health care industry.

I think you will recall that last year about this time we talked about our benefits and we also indicated that we would want to have a study committee appointed to look at where we were and what suggested approaches the University might undertake to stem, at that point in time, what we perceived to be a continuing unabated escalation in our health care premium costs. A committee of University faculty and staff was appointed in late May of last year with the charge to examine all aspects of our health care benefits program. This committee worked throughout the spring, summer and fall, and early this year a report was submitted to the Office of Personnel Services. This report was then distributed to the 15,000 members of the University community. And, in addition, we held three Forums for individual faculty and staff to comment on the various recommendations cited in that report. We asked the various governance committees -- the Faculty Compensation and Benefits Committee, the Fiscal Committee, Staff Advisory Committee, the University's Alternative Health Committee -- to critique the recommendations. We employed a consultant to work with us in trying to fashion recommendations that we could present to President Jennings and ultimately to this Board for review and consideration.

I think that we recognized from the very beginning that Ohio State really was just a part of a larger group of employers looking at this very serious problem. It was our considered judgment that irrespective of what we proposed by way of modifications, changes, and improvements, it was just the tip of the iceberg. We do not believe at the moment that there are any ultimate solutions on the horizon. There are many things that drive health care costs. As I noted earlier, utilization is one of the big cost items. But I should also tell you, and digress momentarily, that we have at Ohio State a truly magnificent health care program.

In 1971 this program was launched as a result of a study that was commissioned by the Board of Trustees to have the Alexander & Alexander Company provide a series of recommendations to initiate the modern day health care program for Ohio State. For example, in 1971 our surgical schedule was just $300.00. We moved from $300 to $450 in 1972. In 1976 we moved that surgical schedule from $450 to $800. In 1971 our major medical was roughly $10,000 and in 1973 we moved that from $25,000 to $50,000. During those periods of time we never had a claim up to $50,000, nor did we have one at $25,000. It is reported today, for example, that a bypass procedure that cost $18,000 ten years ago, now will cost you almost $40,000, and on and on and on. Our upper limit in terms of our major medical as I
May 4, 1989 meeting, Board of Trustees

Mr. Scott: (contd)

noted in 1973 was increased from $25,000 to $50,000. Now we are at one half million dollars. Given what is predicted in terms of certain of the costs associated with the transplants, AIDS, and a number of the very critical and difficult to cure diseases, it is not unreasonable to expect that we will see in the range of $100,000 for one individual’s health care bill. I would not be surprised to find that we have already reported some of those.

So in an attempt to get at the problem, while maintaining the quality of the program, we have enlisted the support of the faculty and staff and have asked them to share their ideas with us. We have come up with a series of recommendations that we would like to present to the Board that hopefully, for the time being, will address the problem on our campus. Let me just say that we have been especially sensitive to the concerns of all people on our campus about fairness and about equity. We were particularly concerned about the idea of change. Change always brings about anxiety and concern. There is really no easy way to communicate change or the need for change.

The recommendations that I will ask Steve Stoffel to give you in a moment are really not inconsistent with what almost every university in the country has already done. Ohio State is lagging. Several weeks ago we were at a major conference on health care in Boston. Some of the things we were talking about were discussed by people such as Ford Motor Company, the Bell Systems people, and all of the major industries. They are already in the process of doing what we are doing. All the Big Ten universities have already done it. So in sum and substance, the recommendations that we are going to present to the Board for its consideration I believe represent the best possible thinking that we can bring to bear on this question. As I have indicated, we not only distributed 15,000 copies of the original report, but I personally monitored and more specifically tried to respond during the three major forums to each and every question presented by the various groups. The final recommendations were reviewed and critiqued by the chairpersons of each of the major committees, and following that we submitted those recommendations to the President for his consideration and review. At this time, I would like ask Steve to briefly sketch out those recommendations. I believe we forwarded the entire package to all of you in your Board book. You should find that information under the Tab Benefits.

Mr. Steve Stoffel:

Thank you, Mr. Scott. I will not read through the recommendations but try to go through them quickly and summarize them as I can.

The first recommendation is that effective July 1, 1989, faculty and staff contributions should be instituted for medical coverage under both of our programs - the traditional health program and the University’s Alternative Health Plan (our preferred provider program). Specifically, beginning with the fiscal year 1989-90, it is recommended that faculty and staff share in the premium costs to a level of 15 per cent. It is further recommended that for the following two years that the percentage be increased 3 per cent per year, and then in 1992-93 it be increased by 4 per cent. So in that year, the total will be 25 per cent of the applicable premiums. Finally, that recommendation states that a three tier rate structure be established. Currently we have a single coverage rate structure and a family coverage rate structure. We are recommending that three rate structures be established: one for single coverage, one for a two-person rate, and one for a family rate.
The second recommendation is to establish premium cost sharing for part-time faculty and staff at the University. Currently part-time faculty and staff receive the same benefit as full-time employees -- 100 per cent payment. Consistent with what is happening with other industries and institutions, it is recommended that part-time individuals share in the cost of that premium on a pro rata basis of their appointment. In other words, someone who is appointed on a 60 per cent basis would pay for 40 per cent of the appropriate insurance premium depending on their enrollment -- single, two-person, or family. There is a chart which details how that works.

The third recommendation is to increase the deductible in the traditional plan and the out-of-network services in the University's Alternative Health Plan from $100 to $150. We have had the $100 deductible now for a number of years. It has not been adjusted with inflation and, in order to make the plans consistent and to adjust for inflation, that is being recommended.

The fourth recommendation is to establish a co-payment for prescription drugs. Currently in the University's Alternative Health Plan, the PPO, there is no co-payment for prescription drugs when those drugs are obtained at a preferred facility -- the University's Hospitals Clinic or the Student Health Center. In order to add some cost effectiveness, we are asking that that be 20 per cent for non-generic drugs and the co-payment be 10 per cent for generic drugs. In order then to still make it appealing for individuals to use in-network facilities then, we are asking that the $150 deductible apply only to out-of-network purchases, which now does not apply. The co-payment would be the same in both programs, except for the deductible.

The fifth recommendation is to increase the co-payment for the University's Alternative Health Plan office visits from $5 to $10. The $5 was established at the inception of this program back in 1985. It has not been changed and of course inflation has taken that up. We think that a $10 co-payment is much more reflective of costs today.

The sixth recommendation is to establish a salary reduction arrangement to permit faculty and staff to pay these contributions to the medical plan with pre-tax dollars. What this amounts to is establishing a form that individuals sign that says they are getting into a salary reduction arrangement with the University. The appropriate premiums that they now pay for medical coverage and now currently pay for dental and vision coverage can be done on a pre-tax basis rather than an after-tax basis. The second item in that recommendation is that by January 1, 1990, we are recommending that the University establish flexible spending accounts where individuals can determine amounts of money that they wish to put in these flexible spending accounts. One would be for medical type coverages and one would be for dependent child care services. Individuals can place pre-tax dollars in those accounts, pay for appropriate services in each one of these areas, and ask for reimbursement from these accounts with pre-tax dollars.

The seventh recommendation is to provide a $25 monthly credit to the flexible spending accounts when they are established for faculty and staff members who waive their individual medical coverage because they have alternative coverage. In other words, if individuals have spouses who work in other places and there is alternative coverage available for them and they wish to waive their entire coverage here at the University, then a $25 monthly credit would be applied to a flexible

May 4, 1989 meeting, Board of Trustees

Mr. Stoffel: (contd)
spending account that they could use to pay for deductibles and other types of co-payments and services that are provided but not covered under their benefit plan.

The eighth recommendation is that the University consider establishing a low cost medical option. It would be an option where the premium sharing would be appropriate to the level of benefits in that option. The program would have high deductibles -- $300 - $400 per individual deductible -- and it would have higher out-of-pocket costs than the other two plans -- $1,500 or $3,000. An individual who feels that they do not want to contribute the higher amount of the premium cost sharing under the traditional or UAHP program could opt for a lower benefit program with higher deductibles. So basically, they end up paying when they go to the physician, instead of paying the premium in advance.

The ninth recommendation is that the University should study the feasibility of restructuring the administration of the various health plans. A number of recommendations were made by the various committees, as Mr. Scott said, which reviewed these programs. It is felt that some consolidation -- possibly instead of having three different administrators for the plans, moving to one administrator; making the traditional program looking exactly like the out-of-network UAHP plan; and trying to streamline some of those things and save dollars on administration costs where possible.

The tenth recommendation is to establish a long-term care insurance program with group rates at the University effective January 1, 1990. Individuals can enroll in this long-term care insurance at the individual faculty and staff members cost. This is a benefit that is new and one that many people are interested in.

The eleventh recommendation is to institute some co-payments not later than January 1, 1990, for lab tests, x-rays and other services on an out-patient basis. It is recommended that the level be 20 per cent. One of the higher cost items that we find in our program and in any insurance program now is the cost of lab tests, x-rays and all those out-of-hospital expenses. This would help individuals recognize what those tests cost.

The twelfth recommendation is to make some modifications in the mental health benefit. Currently the University's in-hospital, in-network benefit is that the first $550 is paid in full. Thereafter, it is an 80 per cent benefit -- there is a 20 per cent co-payment -- and then there are some maximum out-of-pocket costs -- $750 in the University's Alternative Health Program. Again, this is for in-hospital mental health benefits. The maximum coverage is $100,000. What this recommendation says is that we propose to eliminate the first dollar coverage -- the first $550 -- and make it a 20 per cent co-payment instead of covering the first dollar costs, which is consistent with what is happening in other plans. The maximum out-of-pocket cost would still be $750 and the $100,000 limit would still apply.

In the out-of-network, in-patient benefits then, which are currently 80 per cent, we are recommending that those be 70 per cent -- again to provide an incentive for those individuals to use in-network facilities versus out-of-network facilities.

On an out-patient basis, we are recommending that a per year limit be established. Currently there is a $25,000 limit, and we are recommending that this benefit be limited to $2,000 per year, but not change the total limit of $25,000. Physicians and psychiatrists in the area have told us that this should be adequate to cover normal
treatment for someone during a year's period of time. It would cover about 36 office visits. Everyone is saying that that would be about the normal number of office visits an individual would have under constant treatment for a year's period of time. The $2,000 limit of course is set to establish some kind of a ceiling that would not allow for over-utilization in those areas.

The final recommendation then is to change the name of the University's Alternative Health Plan, which again was established in 1985, and was indeed established to be an alternative. The original estimate was for 3,000 faculty and staff to be enrolled in that program. We currently have over 10,000 people enrolled of the 15,000 at the University. So, it is no longer the University's Alternative Health Plan, but really the most significant plan we have. We are recommending that that be renamed The Ohio State University Faculty and Staff Health Plan.

Mr. Scott:

At the back of the report there are three charts and I would just like to comment briefly on those charts. The first one is a summary of the proposed changes. This summary does sketch out what we have just covered. The second chart will give you the proposed cost sharing based on the estimated premiums for the next several years. And calculating at 15 per cent, that we have proposed here, this chart shows you the rate in that second set of numbers there. The final chart gives you just a little historic trend of how this explosion has occurred.

I should say that we have in the University had a feeling for some time that the health care situation really needed some repair. As you know, by virtue of the fact that we were in a traditional plan, for many, many years we maintained a reserve to take care of what is called the claims lag or the claims run-off. For example, for an office visit in say October or November, you don't get the claim until maybe March, April, or May of the next year. Then there was always the possibility that we were going to change carriers and so as a statutory requirement, or at least an industry requirement, you always had to have some reserve. So we had that reserve and indeed after 45 years, several years ago we decided to leave John Hancock. Yet, in leaving John Hancock, by virtue of the fact that our claim reserve had been utilized to cover the expenses over time -- I think the President mentioned this last year in his budget presentation -- that reserve for all practical purposes disappeared. There is some argument that you don't need much of a reserve in light of the fact that the University is its own insurance company. Nonetheless, we think that we should have some because there is, as we can see in the future, no indication that the escalation in health care benefits will subside.

I would like to talk specifically about two things Steve mentioned. Recommendation number six, which has to do with the establishment of a salary reduction agreement. We indicated in the document that we would try to do that effective January 1, 1990. President Jennings has asked that we speed up that process and cut that by six months so that we can possibly implement that by July 1, 1989.

Mr. Teaford:

Good Luck.
May 4, 1989 meeting, Board of Trustees

Mr. Scott:

It is going to be difficult, but that’s what the President wants and that’s what the President will get. We anticipate having the salary reduction agreement effective July 1, 1989. The other recommendation, number eight, I want to be sure we understand what lies ahead for us here. That has to do with the low cost medical plan. It is estimated that we have 5,000 people in the campus community that are single. That is not hard and fast, you don’t know, maybe they just decided not to indicate on the appropriate insurance form whether they had spouses. But we think we have about 5,000 people. It is conceivable, given the general attitude that they’re younger and healthier, that all 5,000 of those folks might dash for this plan mistakedly believing that they will never be touched by illnesses as the rest of us. So that could create what is generally referred to in the industry as adverse selection. We will have to watch that very carefully once we put this plan together. In other words, what I am saying is that you stop the hemorrhaging over here, it moves here, it moves here, it moves here. It is a shifting target and Ohio State, as I said earlier, like most industries, is trying to find the right solution to help ourselves. Mr. Chairman, with that I will close and answer any questions there might be. Mr. President --

President Jennings:

Thank you, Madison. I think you and Steve have covered this extraordinarily well. There has been broad campus-wide discussion and debate on this issue. I think there is campus recognition as to the cost increases that are going on here -- 40 per cent last year, we expect 35 per cent this coming year. We expect that to continue, particularly in light of the fact that these cost increases are coming late to Ohio State. They have been in the large organizations for some time. This is coming late to us.

It is a very difficult situation for the institution to go through. I think the community -- while certainly they prefer that this not be done -- recognizes that we have to accommodate the cost. It is better to accommodate the cost than do anything in terms of reduction in benefits. This is a marvelous health plan and I think we need to guard against any sort of a reduction in the quality of health care delivery at our institution for our people. This is undoubtedly an item that we will revisit every year for several years to come. I don’t think that by adopting this we have closed the door on this. There is no question that this will have to be reviewed for several years to come.

I think it is also important for us to recognize that in this recommendation is the establishment of a committee to monitor costs that is independent of the medical community, and I think that is appropriate. I think the medical community is cooperating very substantially with us on this, but cost containment becomes extraordinarily important in the context of maintaining quality. I support this recommendation in the context of the institutional requirements and in the context of our competition -- namely other Big Ten institutions -- which as Scottie pointed out have already gone to something like this. We do this reluctantly, but recognizing that that is one of the modern facts of life to deal with. I would recommend it for your approval.

Mr. Berry:

Are there any other comments? I think maybe I would like to say one thing. I compliment the committee who worked on this. I think they did a very thorough job.
May 4, 1989 meeting, Board of Trustees

Mr. Berry: (contd)

As the President has indicated, it is something you don't like to do. But I think you have maintained a fine health insurance benefit program, and at the same time minimized the effect on the people by letting them pay for it in pre-tax dollars and things like that. I guess what it amounts to is you really can't afford to get sick these days, but if you do, you better have insurance!

Mr. Teaford:

I wanted to say to Mr. Scott, too, that I very much appreciate the way that this has been layed out for us. It is incredibly complex and I feel like I have a slight chance that I know what I am dealing with here.

MODIFICATION TO THE UNIVERSITY'S GROUP BENEFITS PROGRAM

Resolution No. 89-115

Synopsis: The Fiscal Affairs Committee recommended modifications to the University's Group Benefits program for employees.

WHEREAS the University regularly reviews the benefits package for faculty and staff to determine the appropriateness of each benefit and the costs associated therewith; and

WHEREAS the rapid escalation in the cost of providing health benefits in particular has resulted in a greater portion of the University's operating budget being used to pay the premiums for employee health insurance; and

WHEREAS the national trend in both the health care and insurance industries indicates an exponential growth in providing health benefits for the foreseeable future; and

WHEREAS the President, the Vice President for Personnel Services, other administrators, University Committees, and individuals representing all parts of the University community have thoroughly reviewed the benefits program; and

WHEREAS the President has recommended the modifications set forth in Appendix LII as a means of maintaining the quality of the faculty/staff benefits program:

NOW THEREFORE

BE IT RESOLVED, That the modifications to the group health care benefits program set forth in Appendix LII be implemented by the Office of Personnel Services through the use of payroll deduction and other appropriate means; and

BE IT FURTHER RESOLVED, That the Vice President for Personnel Services be directed to include in any union negotiations the terms of the group health care benefits program set forth in Appendix LII as part of future collective bargaining agreements in order to reconcile the benefits available to all University staff members.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LII for complete text for Recommendations for Modifications of the University's Group Benefits Program, page 1239.)
May 4, 1989 meeting, Board of Trustees

Mr. Barone:

Mr. Chairman, on behalf of us all, it is a great honor that we at The Ohio State University and the Board of Trustees wish to present you with this gavel as a sign of appreciation. You have been a tremendous Trustee and a tremendous Chairman. We want to thank you for your generosity, not only for the material things but the pro bonal things you have done.

Mr. Immke:

Thank you.

President Jennings:

Last night, as you all know, we had a small party and this is the television tape of that party. I'm not sure you want to have a copy of it, but here it is.

Mr. Immke:

Thank you.

--0--

Thereupon the Board adjourned to meet Friday, June 2, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman
APPENDIX XXXVI

THE OHIO STATE UNIVERSITY CAMPAIGN
March 31, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees May 4, 1989
(See page 1069)
The Ohio State University Campaign
Progress Report
March 31, 1989

<table>
<thead>
<tr>
<th></th>
<th>*Campaign Expectancies</th>
<th>Current Year Campaign Receipts (Jul 88-Mar 89)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1988</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>$64,471,979</td>
<td>$10,506,043</td>
<td>$38,283,424</td>
<td>$113,261,446</td>
<td>$122,500,000</td>
<td>92</td>
</tr>
<tr>
<td>Friends</td>
<td>32,648,785</td>
<td>5,144,016</td>
<td>28,643,850</td>
<td>66,463,651</td>
<td>70,000,000</td>
<td>95</td>
</tr>
<tr>
<td>**Corporations</td>
<td>13,806,954</td>
<td>13,682,929</td>
<td>101,125,935</td>
<td>128,615,818</td>
<td>122,500,000</td>
<td>105</td>
</tr>
<tr>
<td>Foundations</td>
<td>3,071,734</td>
<td>3,900,281</td>
<td>19,935,229</td>
<td>26,907,244</td>
<td>35,000,000</td>
<td>77</td>
</tr>
<tr>
<td>**Totals</td>
<td>$113,999,452</td>
<td>$33,233,269</td>
<td>$187,988,438</td>
<td>$335,221,159</td>
<td>$350,000,000</td>
<td>96</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
THE OHIO STATE UNIVERSITY  
OFFICE OF UNIVERSITY DEVELOPMENT  
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-March  
1987-88 Compared to 1988-89

GIFT RECEIPTS BY DONOR TYPE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>39,525</td>
<td></td>
<td>36,484</td>
<td></td>
<td>(8)</td>
<td>7,372,265</td>
<td></td>
<td>10,506,043</td>
<td></td>
<td>43</td>
</tr>
<tr>
<td>Non Alumni</td>
<td>17,967</td>
<td></td>
<td>17,169</td>
<td></td>
<td>(4)</td>
<td>5,564,945</td>
<td></td>
<td>5,144,016</td>
<td></td>
<td>(8)</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,687</td>
<td></td>
<td>1,823</td>
<td></td>
<td>8</td>
<td>6,370,378</td>
<td></td>
<td>9,683,934</td>
<td></td>
<td>52</td>
</tr>
<tr>
<td>Corporate Foundations</td>
<td>235</td>
<td></td>
<td>222</td>
<td></td>
<td>(6)</td>
<td>1,439,672</td>
<td></td>
<td>1,556,179</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Private Foundations</td>
<td>128</td>
<td></td>
<td>136</td>
<td></td>
<td>6</td>
<td>7,680,563</td>
<td></td>
<td>3,900,281</td>
<td></td>
<td>(49)</td>
</tr>
<tr>
<td>Other</td>
<td>1,002</td>
<td></td>
<td>977</td>
<td></td>
<td>(2)</td>
<td>1,970,642</td>
<td></td>
<td>2,442,816</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>TOTAL</td>
<td>60,544</td>
<td></td>
<td>56,811</td>
<td></td>
<td>(6)</td>
<td>30,398,465</td>
<td></td>
<td>33,233,269</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
Page 1148 is blank
APPENDIX XXXVII

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
April 21, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees May 4, 1989
(See page 1069)
THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
April 21, 1989

Endowment Composition

<table>
<thead>
<tr>
<th>Equities:</th>
<th>06-30-88</th>
<th></th>
<th>2011-88</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>$38,004,379</td>
<td>18.55%</td>
<td>$40,592,603</td>
<td>17.33%</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>10,454,591</td>
<td>5.10%</td>
<td>11,256,474</td>
<td>4.81%</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,428,707</td>
<td>16.81%</td>
<td>38,260,246</td>
<td>16.33%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>17,462,592</td>
<td>8.53%</td>
<td>19,678,036</td>
<td>8.40%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>33,282,386</td>
<td>16.25%</td>
<td>52,533,900</td>
<td>22.86%</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$133,632,655</td>
<td>65.24%</td>
<td>$163,331,259</td>
<td>69.73%</td>
</tr>
</tbody>
</table>

Fixed Income:

<table>
<thead>
<tr>
<th>Fixed Income:</th>
<th>06-30-88</th>
<th></th>
<th>2011-88</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust (1)</td>
<td>$21,547,467</td>
<td>10.52%</td>
<td>$21,655,681</td>
<td>9.25%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>921,925</td>
<td>0.45%</td>
<td>899,176</td>
<td>0.38%</td>
</tr>
<tr>
<td>Diff &amp; Phelps</td>
<td>9,983,561</td>
<td>4.87%</td>
<td>9,872,939</td>
<td>4.22%</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>22,300,069</td>
<td>10.89%</td>
<td>22,323,962</td>
<td>9.53%</td>
</tr>
<tr>
<td>OSU - GMA</td>
<td>9,954,372</td>
<td>4.86%</td>
<td>9,655,027</td>
<td>4.12%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,502,840</td>
<td>3.17%</td>
<td>6,428,010</td>
<td>2.77%</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$71,210,234</td>
<td>34.76%</td>
<td>$70,904,795</td>
<td>30.27%</td>
</tr>
</tbody>
</table>

Total Equities & Fixed Income:

| Total Equities & Fixed Income      | $204,842,889 | 100.00% | $234,236,054 | 100.00% |

Real Estate:

| Real Estate                        | $43,089,186 | 100.00% | $36,569,784 (2) |

Total Portfolio:

| Total Portfolio                    | $247,932,075 | $270,805,838 |

1) Formerly Centerra Trust.
(2) Real Estate reported at most recent appraised value.
## Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value April '88 to April '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.61%</td>
<td>9.37%</td>
<td>12.98%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.82%</td>
<td>17.79%</td>
<td>19.61%</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>4.24%</td>
<td>15.47%</td>
<td>19.71%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>3.03%</td>
<td>17.79%</td>
<td>20.82%</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>4.79%</td>
<td>14.87%</td>
<td>19.66%</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.76%</td>
<td>19.19%</td>
<td>22.95%</td>
</tr>
<tr>
<td>Real Estate:</td>
<td>4.37%</td>
<td>-0-</td>
<td>4.37%</td>
</tr>
</tbody>
</table>

### Fixed Income:

| Bonds (Boatmen's Trust, formerly Centerre Trust) | 8.44% | (3.54)% | 4.90% |
| Bonds (Cambridge)                  | 8.27% | (3.14)% | 5.13% |
| Bonds (Duff & Phelps)              | 8.85% | (1.45)% | 7.40% |
| Bonds (State Fixed Income)         | 9.27% | (0.08)% | 9.19% |
| Bonds (OSU - GMA)                  | 9.96% | (3.01)% | 6.95% |
| Bonds (OSU Managed)                | 8.00% | 2.75%   | 10.75%|
| Merrill Lynch Corporate/           |       |        |       |
| Government Master                  | 9.12% | (2.35)% | 6.77% |

(1) 19.4% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.7%.
(2) 0.9% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 9.1%.
(3) 49.7% of Siebel portfolio is made up of cash and cash equivalents which earn 9.8%.
(4) 50.9% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.8%.
(5) 11.0% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.1%.
(6) 1.1% of Cambridge portfolio is made up of cash and cash equivalents which earn 9.1%.
(7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 9.1%.
(8) 0.9% of State Fixed Income portfolio is made up of cash and cash equivalents which earn 9.1%.
(9) 0.6% of OSU-GMA portfolio is made up of cash and cash equivalents which earn 9.1%.
(10) 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.1%.
(11) Not able to compare 12 months.
(12) Endowment Fund Income through April 30, 1989, totaled approximately $11,996,000.
(13) Income from University Cash Investments through April 30, 1989, totaled approximately $11,921,000.

### Change in Total Value

<table>
<thead>
<tr>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>04-21-89</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-88)</td>
<td>$247,932,075</td>
<td>Equities</td>
<td>$109,090,546</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>11,694,162</td>
<td>Fixed Income</td>
<td>62,105,600</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(126,410)</td>
<td>Real Estate</td>
<td>36,458,000</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>11,386,011</td>
<td>Cash</td>
<td>63,151,692</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$270,805,838</td>
<td>Total Portfolio</td>
<td>$270,805,838</td>
</tr>
</tbody>
</table>
### Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>500,000</td>
<td>U.S. Treasury Note 14.375% 04/15/89</td>
<td>Siebel</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

### Real Estate

**Sale**

No Activity

**Total Investment**
### Common & Preferred Stock

#### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,200</td>
<td>McKesson Corp.</td>
<td>Chicago</td>
<td>30.7500</td>
<td>$160,238.00</td>
<td>$7,488.00</td>
</tr>
<tr>
<td>7,000</td>
<td>Autodesk, Inc.</td>
<td>Nicholas-Applegate</td>
<td>32.4152</td>
<td>226,906.25</td>
<td>0.00</td>
</tr>
<tr>
<td>4,300</td>
<td>Bausch &amp; Lomb, Inc.</td>
<td>&quot;</td>
<td>52.4722</td>
<td>225,888.30</td>
<td>4,988.00</td>
</tr>
<tr>
<td>3,600</td>
<td>General Mills, Inc.</td>
<td>&quot;</td>
<td>26.4854</td>
<td>217,671.90</td>
<td>2,952.00</td>
</tr>
<tr>
<td>4,000</td>
<td>Intel Corp.</td>
<td>&quot;</td>
<td>59.2707</td>
<td>213,590.40</td>
<td>6,768.00</td>
</tr>
<tr>
<td>3,300</td>
<td>Merck &amp; Company, Inc.</td>
<td>&quot;</td>
<td>28.8187</td>
<td>115,275.00</td>
<td>0.00</td>
</tr>
<tr>
<td>7,500</td>
<td>Rubbermaid, Inc.</td>
<td>&quot;</td>
<td>65.1370</td>
<td>215,150.10</td>
<td>5,412.00</td>
</tr>
<tr>
<td>16,700</td>
<td>Seagate Technology</td>
<td>&quot;</td>
<td>28.9134</td>
<td>217,300.60</td>
<td>3,300.00</td>
</tr>
<tr>
<td>5,221</td>
<td>Banc One Corp.*</td>
<td>OSU</td>
<td>22.8565</td>
<td>119,333.69</td>
<td>5,429.84</td>
</tr>
<tr>
<td>2,735</td>
<td>Van Kampen Merritt</td>
<td>&quot;</td>
<td>14.6200</td>
<td>39,985.75</td>
<td>0.00</td>
</tr>
<tr>
<td>5,100</td>
<td>Bancorp Hawaii, Inc.</td>
<td>Siebel</td>
<td>43.7500</td>
<td>223,125.00</td>
<td>6,936.00</td>
</tr>
</tbody>
</table>

\[ \text{Total: } 2,492,008.99 \text{ with } 44,859.84 \]

* Gift.
## The Ohio State University
### Common & Preferred Stock

#### Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,800</td>
<td>Brunswick Corp.</td>
<td>Chicago</td>
<td>$17.0000</td>
<td>$132,127.58</td>
<td>$(23,404.42)</td>
</tr>
<tr>
<td>5,832</td>
<td>Pall Corp.</td>
<td>''</td>
<td>$28.2500</td>
<td>$164,398.58</td>
<td>$(13,878.69)</td>
</tr>
<tr>
<td>10,000</td>
<td>Black &amp; Decker Corp.</td>
<td>Nicholas-Applegate</td>
<td>$20.4120</td>
<td>$201,513.03</td>
<td>$(26,456.97)</td>
</tr>
<tr>
<td>12,500</td>
<td>Charming Shoppes, Inc.</td>
<td>''</td>
<td>$14.3750</td>
<td>$179,687.50</td>
<td>$(32,812.50)</td>
</tr>
<tr>
<td>4,600</td>
<td>Consolidated Freightways, Inc.</td>
<td>''</td>
<td>$29.3414</td>
<td>$134,689.98</td>
<td>$(11,933.60)</td>
</tr>
<tr>
<td>1,100</td>
<td>Consolidated Rail Corp.</td>
<td>''</td>
<td>$33.8400</td>
<td>$37,156.75</td>
<td>1,776.96</td>
</tr>
<tr>
<td>700</td>
<td>Eljer Industries, Inc.</td>
<td>''</td>
<td>$27.2500</td>
<td>$19,032.36</td>
<td>$(2,078.31)</td>
</tr>
<tr>
<td>1,700</td>
<td>Household International, Inc.</td>
<td>''</td>
<td>$62.9970</td>
<td>$106,989.33</td>
<td>14,953.03</td>
</tr>
<tr>
<td>6,900</td>
<td>K Mart Corp.</td>
<td>''</td>
<td>$27.1250</td>
<td>$192,155.08</td>
<td>$(23,682.95)</td>
</tr>
<tr>
<td>7,100</td>
<td>Ogden Corp.</td>
<td>''</td>
<td>$14.7500</td>
<td>$10,282.65</td>
<td>91.29</td>
</tr>
<tr>
<td>700</td>
<td>Schwitzer, Inc.</td>
<td>''</td>
<td>$12.8750</td>
<td>$8,970.19</td>
<td>$(857.19)</td>
</tr>
<tr>
<td>8,800</td>
<td>Stone Container Corp.</td>
<td>''</td>
<td>$29.2688</td>
<td>$257,028.90</td>
<td>$(9,219.60)</td>
</tr>
<tr>
<td>3,500</td>
<td>Tyco Labs, Inc.</td>
<td>''</td>
<td>$33.8750</td>
<td>$118,348.54</td>
<td>34,588.29</td>
</tr>
<tr>
<td>3,300</td>
<td>Union Bank of San Francisco</td>
<td>''</td>
<td>$24.8599</td>
<td>$82,037.50</td>
<td>$(7,062.50)</td>
</tr>
<tr>
<td>9,400</td>
<td>Varian Associates, Inc.</td>
<td>''</td>
<td>$25.9558</td>
<td>$243,412.35</td>
<td>$(15,224.45)</td>
</tr>
<tr>
<td>1,160</td>
<td>Campbell Soup Co.*</td>
<td>OSU</td>
<td>$33.0000</td>
<td>$37,974.22</td>
<td>256.72</td>
</tr>
<tr>
<td>2,450</td>
<td>Prefomed Line Products*</td>
<td>''</td>
<td>$73.0000</td>
<td>$178,850.00</td>
<td>4,900.00</td>
</tr>
<tr>
<td>16,000</td>
<td>Hilton Hotels Corp.</td>
<td>Siebel</td>
<td>$57.9130</td>
<td>$925,617.11</td>
<td>212,897.11</td>
</tr>
<tr>
<td>8,300</td>
<td>Loews Corp.</td>
<td>''</td>
<td>$91.6345</td>
<td>$759,959.83</td>
<td>379,851.29</td>
</tr>
<tr>
<td>21,000</td>
<td>Springs Industries C. A.</td>
<td>''</td>
<td>$40.5292</td>
<td>$849,615.31</td>
<td>125,115.31</td>
</tr>
<tr>
<td>40,000</td>
<td>VLSI Technology, Inc.</td>
<td>''</td>
<td>$7.5000</td>
<td>$300,000.00</td>
<td>$(292,500.00)</td>
</tr>
</tbody>
</table>

* Gift.

\[ \text{Total Gain (Loss) On Sale} = $5,252,574.40 \quad \text{Total Gain (Loss) On Sale} = $316,649.32 \]

1154
The Ohio State University
Bonds/Notes

Bonds

Purchases Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>575,000</td>
<td>Bear Sterns CMD 8.900% 06/01/17</td>
<td>Boatmen’s</td>
<td>10.1896</td>
<td>10.2811</td>
<td>87.3437</td>
<td>$ 502,226.56</td>
</tr>
<tr>
<td>600,000</td>
<td>Southwestern Bell Telephone 7.750% 09/01/09</td>
<td>&quot;</td>
<td>9.6470</td>
<td>10.0296</td>
<td>80.3360</td>
<td>482,016.00</td>
</tr>
<tr>
<td>400,000</td>
<td>U.S. Treasury Bond 8.875% 08/15/17</td>
<td>&quot;</td>
<td>9.1230</td>
<td>9.1430</td>
<td>97.2812</td>
<td>389,125.00</td>
</tr>
<tr>
<td>3,680,000</td>
<td>U.S. Treasury Bond (Stripped) 0.000% 05/15/04</td>
<td>&quot;</td>
<td>0.0000</td>
<td>9.0680</td>
<td>26.2850</td>
<td>967,288.00</td>
</tr>
<tr>
<td>1,800,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>Cambridge</td>
<td>9.0187</td>
<td>9.0281</td>
<td>98.4062</td>
<td>1,771,312.50</td>
</tr>
<tr>
<td>6,800,000</td>
<td>U.S. Treasury Note 8.875% 11/15/98</td>
<td>STW</td>
<td>9.1299</td>
<td>9.3189</td>
<td>97.2081</td>
<td>6,610,150.80</td>
</tr>
</tbody>
</table>

$10,722,118.86
## Bonds
### Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>550,000</td>
<td>Southwestern Bell Telephone 8.250% 04/01/17</td>
<td>Boatmen's</td>
<td>83.2370</td>
<td>$457,803.50</td>
<td>$ (6,528.50)</td>
</tr>
<tr>
<td>425,000</td>
<td>Community Program Loan Trust 4.500% 10/01/18</td>
<td>&quot;</td>
<td>54.6250</td>
<td>232,156.25</td>
<td>1,263.42</td>
</tr>
<tr>
<td>100,000</td>
<td>Franklin Savings Assn. 9.500% 02/15/18</td>
<td>&quot;</td>
<td>91.7840</td>
<td>91,784.00</td>
<td>(5,477.00)</td>
</tr>
<tr>
<td>100,000</td>
<td>Northwestern Bell Telephone 8.125% 03/15/17</td>
<td>&quot;</td>
<td>82.4000</td>
<td>82,400.00</td>
<td>(1,100.00)</td>
</tr>
<tr>
<td>575,000</td>
<td>General Motors Corp. 8.125% 04/15/16</td>
<td>&quot;</td>
<td>81.6570</td>
<td>469,527.75</td>
<td>(4,462.00)</td>
</tr>
<tr>
<td>3,100,000</td>
<td>U.S. Treasury Bond (Stripped) 0.000% 05/15/02</td>
<td>&quot;</td>
<td>31.1990</td>
<td>967,169.00</td>
<td>73,594.00</td>
</tr>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>Cambridge</td>
<td>97.2812</td>
<td>875,531.25</td>
<td>(10,406.25)</td>
</tr>
<tr>
<td>4,000</td>
<td>American Telephone &amp; Telegraph* 7.000% 02/15/01</td>
<td>OSU</td>
<td>80.7500</td>
<td>3,322.56</td>
<td>0.00</td>
</tr>
<tr>
<td>6,800,000</td>
<td>U.S. Treasury Note 9.250% 08/15/98</td>
<td>STW</td>
<td>99.5937</td>
<td>6,772,375.00</td>
<td>(25,746.25)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$9,952,069.31</td>
</tr>
</tbody>
</table>

* Gift.
| Building and 3.295 acres at 930 Kinnear Road | 10.46 | 1962 | $435,204 | $1,400,000 | 06/87 |
| Building and 5.56 acres at 1100 Kinnear Road | 12.00 | 1984 | 825,000 | 1,900,000 | 06/87 |
| Building and 2.633 acres at 1900 Kinnear Road | 10.47 | 1961 | 659,930 | 1,150,000 | 06/87 |
| Building and 6.41 acres at 1960 Kinnear Road | 8.89 | 1971 | 1,320,693 | 2,300,000 | 06/87 |
| Building and 6.328 acres at 1991 Kinnear Road | 3.18 | 1968 | 170,000 | 570,000 | 06/87 |
| 46.984 acres of land in Delaware County | 100, 3%9 | 1971 | 100,793 | 100,000 | 06/87 |
| Hangar at Don Scott Field (Loan) | 0.00 | 1978 | 35,331 | 35,331 | N/A |
| Hangar addition at Don Scott Field (Loan) | 10.00 | 1978 | 78,453 (1) | 78,453 (1) | N/A |
| House and .23 acres of land, 760 Beautyview Court | 100, 000 | 1988 | 100,000 | 100,000 | 06/88 |
| 94.5 acres of land on Harrisburg Pike | .00 | 1986 | 190,000 | 250,000 | 10/87 |
| 51 acres of land, 2809 West Granville Road | .00 | 1962 | 160,265 | 2,762,000 | 06/87 |
| 48.52 acres of land, 3025 West Granville Road | .00 | 1972 | 544,398 | 4,124,000 | 06/87 |
| 76.143 acres of land, 3253 West Granville Road | .40 | 1968 | 310,538 | 6,472,000 | 06/87 |
| 30.539 acres of land, 3371 West Granville Road | .00 | 1971 | 265,079 | 2,596,000 | 06/87 |
| 32 acres of land, 3371 West Granville Road | .00 | 1986 | 2,078,666 | 2,720,000 | 06/87 |
| 12 acres of land, 3483 West Granville Road | .00 | 1963 | 24,000 | 1,020,000 | 06/87 |
| 8.557 acres of land, 3505 West Granville Road | .00 | 1968 | 17,124 | 727,000 | 06/87 |
| Undivided one-half interest in building and | 1.65 acres at 1375 South Hamilton Road | .00 | 1986 | 95,000 | 95,000 | 01/86 |
| 20.988 acres of land on Shier-Rings Road | .00 | 1978 | 241,848 | 950,000 | 05/88 |
| 17.92 acres of land on Sitekman Road | 3.73 | 1978 | 25,132 | 725,000 | 05/88 |
| Veterans Administration Clinic | 5.67 | 1979 | 3,767,261 | 6,140,000 | 02/85 |

$11,642,725 $35,569,784

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Voting

Date: April 30, 1989

From: James L. Nichols, Treasurer

To: Board of Trustees, The Ohio State University

During the month of April 1989, the University voted 94 proxies.

Management proposals were as follows:

1) Ratification of the Board of Directors;
2) Approval of Independent Auditors;
3) Amendment to incentive compensation plan;
4) Approval of Stock Option Plan for non-employee directors;
5) Approval of the Directors Stock Award Plan;
6) Approval of the Employee Stock Appreciation Rights Plan;
7) Amendment to increase authorized shares of Common Stock;
8) Approval of the agreement and plans trust;
9) Amendment to Employee Stock Purchase Plan;
10) Approval of the Restricted Stock Award Plan;
11) Approval of Trustees;
12) Elimination of Directors' liability to the Company or its stockholders;
13) Fixing the number of Class A and Class B directors;
14) Provide for the voting of Class A and Class B common stock as separate classes;
15) Approval of the restricted stock plan for non-employee directors;
16) Increase the number of shares that may be available under employee stock purchase plan;
17) Approval of senior management's and Directors' stock plan;
18) Allow directors more discretion in discharging duties;
19) Approval of a long-term performance plan;
20) Authorize the purchase of outstanding common stock;
21) Amendment to provide officers the right to surrender options for cash under certain circumstances;
22) Amendment to the long-term incentive plan;
23) Allow granting of options to certain key company officers;
24) Approval of performance sharing plan;
25) Increase the number of directors;
26) Fixing the number of directors for the ensuing year;
27) Amendment of the contingent stock plan to increase shares available thereunder and to eliminate termination date;
28) Allow options to directors who are not employees;
29) Amendment to deferred compensation plan to increase contributions;
30) Amendment to authorize the Board of Directors to adopt, amend, or repeal the company’s by-laws.

Shareholder proposals were as follows:

1) Sever all remaining business ties with South Africa;
2) Amendment to keep proxy voting confidential;
3) Insure that no corporate funds be given as donations except for business purposes;
4) Provide for cumulative voting in the election of directors;
5) Recommend that the board of directors redeem or submit to a shareholder vote, the rights to purchase preferred stock;
6) Make no loans to corporations which have changed their annual meeting date;
7) Prohibit further participation in Chilean Debt-Equity swaps;
8) Limit term for outside directors to six years;
9) Require that new directors be elected annually and not by classes;
10) Take necessary steps to have the accounting firm elected by all the shareholders each year;
11) Require directors to own at least 2,000 shares of common stock;
12) Require the corporation to affirm its political non-partisanship;
13) Restore limited pre-emptive rights to shareholders;
14) Implementation of the MacBride Principles;
15) Suspend all further investment in Malaysian subsidiaries;
16) Provide for the formation of a nominating committee, at least the majority of which should be composed of outside directors;
17) Provide stockholders a list of Vice-Presidents and above with prior government service;
18) Provide stockholders information on boiling water reactors;
19) Provide stockholders information on company's nuclear energy business;
20) Require the company to reduce the use of hazardous material in their operations;
21) Provide stockholders a list of all political contributions;
22) Provide disclosure regarding all aspects of animal testing of consumer products;
23) Report all activity of a subsidiary in Northern Ireland to shareholders;
24) Not to be governed by Section 203 of the Delaware General Corporation Law;
25) Take necessary steps toward affirmative action and equal opportunity;
26) Reinstate annual election of directors;
27) Require directors to own at least 1,000 shares of common stock;
28) Require the company to study impact of plant closings;
29) Amend the company's incentive plan;
30) Implement a policy of secret ballot voting at all shareholder meetings;
31) Submit the preferred share purchase rights plan to a vote of shareholders.

The University voted for all management proposals and against all shareholder proposals except proposal 1. Management opposed all shareholder proposals.

The 94 corporations were:

1) American Electric Power Company, Incorporated
2) AMR Corporation
3) Anadarko Petroleum Corporation
4) Bankers Trust New York Corporation
5) CR Bard, Incorporated
6) Bausch and Lomb, Incorporated
7) Bell Atlantic Corporation
8) BellSouth Corporation
9) Bevis Company, Incorporated
10) Brunswick Corporation
11) Capital Cities/ABC Incorporated
12) Capital Holding Corporation
13) Clark Equipment Company
14) CNA Financial Corporation
15) Coca-Cola Company
<table>
<thead>
<tr>
<th>No.</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Consolidated Papers, Incorporated</td>
</tr>
<tr>
<td>17</td>
<td>Cooper Development Company</td>
</tr>
<tr>
<td>18</td>
<td>Cooper Industries, Incorporated</td>
</tr>
<tr>
<td>19</td>
<td>Crawford and Company</td>
</tr>
<tr>
<td>20</td>
<td>AT Cross Company</td>
</tr>
<tr>
<td>21</td>
<td>Cypress Semiconductor Corporation</td>
</tr>
<tr>
<td>22</td>
<td>Ethyl Corporation</td>
</tr>
<tr>
<td>23</td>
<td>Exxon Corporation</td>
</tr>
<tr>
<td>24</td>
<td>Federal National Mortgage Association</td>
</tr>
<tr>
<td>25</td>
<td>First Wachovia Corporation</td>
</tr>
<tr>
<td>26</td>
<td>Flight Safety International, Incorporated</td>
</tr>
<tr>
<td>27</td>
<td>FPL Group, Incorporated</td>
</tr>
<tr>
<td>28</td>
<td>Geico Corporation</td>
</tr>
<tr>
<td>29</td>
<td>General Electric Company</td>
</tr>
<tr>
<td>30</td>
<td>Georgia-Pacific Corporation</td>
</tr>
<tr>
<td>31</td>
<td>Great Lakes Chemical Corporation</td>
</tr>
<tr>
<td>32</td>
<td>Greyhound Corporation</td>
</tr>
<tr>
<td>33</td>
<td>Hilton Hotels Corporation</td>
</tr>
<tr>
<td>34</td>
<td>Holiday Corporation</td>
</tr>
<tr>
<td>35</td>
<td>Home Depot Corporation</td>
</tr>
<tr>
<td>36</td>
<td>Household International Incorporated</td>
</tr>
<tr>
<td>37</td>
<td>Hubbell, Incorporated</td>
</tr>
<tr>
<td>38</td>
<td>IBM Corporation</td>
</tr>
<tr>
<td>39</td>
<td>Inland Steel Industries Incorporated</td>
</tr>
<tr>
<td>40</td>
<td>K Mart Corporation</td>
</tr>
<tr>
<td>41</td>
<td>Lance, Incorporated</td>
</tr>
<tr>
<td>42</td>
<td>Lawson Products, Incorporated</td>
</tr>
<tr>
<td>43</td>
<td>Lin Broadcasting Corporation</td>
</tr>
<tr>
<td>44</td>
<td>Lincoln National Corporation</td>
</tr>
<tr>
<td>45</td>
<td>Lockhead Corporation</td>
</tr>
<tr>
<td>46</td>
<td>Loews Corporation</td>
</tr>
<tr>
<td>47</td>
<td>Longs Drug Store Corporation</td>
</tr>
<tr>
<td>48</td>
<td>Marriott Corporation</td>
</tr>
<tr>
<td>49</td>
<td>Martin Marietta Corporation</td>
</tr>
<tr>
<td>50</td>
<td>McGraw-Hill, Incorporated</td>
</tr>
<tr>
<td>51</td>
<td>MCI Communications Corporation</td>
</tr>
<tr>
<td>52</td>
<td>Millipore Corporation</td>
</tr>
<tr>
<td>53</td>
<td>National City Corporation</td>
</tr>
<tr>
<td>54</td>
<td>NBD Bancorp, Incorporated</td>
</tr>
<tr>
<td>55</td>
<td>Nevada Power Company</td>
</tr>
<tr>
<td>56</td>
<td>Nordstrom, Incorporated</td>
</tr>
<tr>
<td>57</td>
<td>Nucor Corporation</td>
</tr>
<tr>
<td>58</td>
<td>Nynex Corporation</td>
</tr>
<tr>
<td>59</td>
<td>Olsten Corporation</td>
</tr>
<tr>
<td>60</td>
<td>Pacific Telesis Group</td>
</tr>
<tr>
<td>61</td>
<td>PepsiCo, Incorporated</td>
</tr>
</tbody>
</table>
62) Philip Morris Companies, Incorporated
63) Phillips Petroleum Incorporated
64) Pitney Bowes, Incorporated
65) Preformed Line Products, Incorporated
66) Primerica Corporation
67) Policy Management Systems Corporation
68) Potlatch Corporation
69) Rohm and Haas, Incorporated
70) Rubbermaid, Incorporated
71) Russell Corporation
72) Ryder Systems, Incorporated
73) Safeco Corporation
74) Salomon, Incorporated
75) Sealed Air Corporation
76) Sigma-Aldrich Company
77) Snap-On Tools Corporation
78) Southern New England Telecommunications Corporation
79) Southwestern Bell Corporation
80) Stone Container Corporation
81) Stryker Corporation
82) Tambrands, Incorporated
83) Teledex, Incorporated
84) Transco Energy Corporation
85) US Air Group Incorporated
86) USIT Incorporated
87) US West Incorporated
88) Vulcan Materials Company
89) The Washington Post Company
90) Waste Management, Incorporated
91) Wells Fargo and Company
92) Willamette Industries, Incorporated
93) Wisconsin Energy Corporation
94) WW Grainger, Incorporated
APPENDIX XXXVIII

EXECUTIVE SUMMARY
GRADUATE SCHOOL UPDATE

Presented to the Academic Affairs Committee
(See page 1070)
EXECUTIVE SUMMARY

Presentation to the Board of Trustees of The Ohio State University, by Roy A. Koenigsknecht, Dean of the Graduate School - May 4, 1989

Dean Koenigsknecht gave an overview and history of graduate education at The Ohio State University. He indicated that graduate education is at the core of the major research university, noting its affects on undergraduate and professional education as well as on the nature of faculty research programs.

Demographics: Ohio State has the largest enrollment of graduate students (10,679) on a single campus in the nation. We are among the national leaders in number of advanced degrees awarded, international graduate students, and domestic graduate students from outside the state, although 65% of our graduate students are from the State of Ohio. Ohio State ranks second nationally in the number of doctoral degrees awarded to black students.

Organization: The Graduate School has a university-wide reach, offering degree programs in every college but Law. In setting and maintaining academic standards for graduate education, the Graduate School relies on faculty governance to influence quality throughout the 94 doctoral and 127 masters degree programs. The 2,400 graduate faculty, the 127 graduate studies committees, the Research and Graduate Council, and various Graduate School committees collectively determine the conduct of graduate education at the university.

Support of Graduate Education: The Graduate School supports graduate education through many of its ongoing programs: fellowship competitions, recruitment grants and workshops, visits by internationally eminent scholars, a summer research program for minority undergraduate students, to name a few. Professor Keith Alley, Oral Biology and Anatomy, and Ms. Kathryn Lilly, Ph.D. candidate in Electrical Engineering, provided their views on the critical importance of Graduate School fellowships from the perspective of a selection committee and of a fellowship recipient, respectively.

Ohio State relies heavily on the use of Graduate Teaching Associates to carry out its instructional mission and to support graduate students. With fewer than half our graduate students receiving fellowship or graduate associateship support, our faculty support an increase in efforts to provide fellowship support for outstanding prospective and continuing graduate students.

The Future: This past year, Dean Koenigsknecht appointed a fifteen member Commission on Graduate Education to make independent assessments and recommendations on graduate education at Ohio State, with a report due next year, the one-hundredth anniversary of our first award of a doctoral degree. He noted that while there is much that is good about graduate education at Ohio State and our graduates have gone on to make significant contributions in academics, business, and the professions, the Commission report in conjunction with the strategic planning process will stimulate change and development as needed.
APPENDIX XXXVIII

EXECUTIVE SUMMARY
REPORT ON THE STUDENT HEALTH INSURANCE COMMITTEE
COUNCIL ON STUDENT AFFAIRS

Presented to the Student Affairs Committee and
Adopted by the Board of Trustees May 4, 1989
(See page 1090)
Executive Summary

Escalating costs of medical benefits are being reported nationwide. National news and trade journals have predicted a twenty percent to thirty percent increase in health insurance premiums for 1989. With these industry forecasts as a backdrop, the Student Health Insurance Committee moved forward with their responsibility of submitting its recommendations on a policy regarding the student health insurance plan. The committee's recommendations address coverage, cost, and selection of the provider. The following recommendation seeks to control costs and enhance the medical benefits coverage for students.

Recommendation

Given the limitation of receiving only one fully insured proposal, and two self-insured, third-party administered program proposals that met bid specifications, the committee made the following recommendation:

The committee recommends continuing with Central Benefits under their fully insured proposal for 1989-90 and 1990-91. Coverage should reflect the inclusion of Alternate 1 (increasing room and board $10 in 1989-90, and $5 in 1990-91); Alternate 3-A (reducing deductible on outpatient substance abuse and nervous/mental benefits from $500 to $250 and increasing coinsurance from 50% to 80%); and Alternate 4-C (increasing major medical coverage to $100,000).

Basis for Recommendation

1. The committee determined that a self-insured, third-party administered program would not produce monetary savings for the students or provide enhanced benefit coverage. Such a program would, however, result in a shortfall to the University if the estimated premiums available to pay the claims were less than the actual claims. If this shortfall did occur the University or the students would have to pay the difference, a liability the committee did not want to impose on either group.

2. Central Benefits was the only fully insured bid received and they have underbid all competitors the last two years.

3. Central Benefits' fully insured proposal:
   A. Provides a 7.5% retention rate (compared to 8% in 1988-89);
   B. Continues coverage by the current carrier;
C. Reduces start-up costs for the University Health Service because of working with the current carrier, although this was a minor consideration;

D. Single student quote (including alternatives) compares favorably (at 23.6% increase year 1 and 10.1% increase year 2) with industry forecasts of 20-30% increase in health insurance premiums for 1989 alone;

E. Improves benefits coverage in areas deemed desirable and does so at competitive rates; and,

F. Recognizes a satisfactory work history with the company.
Page 1168 is blank
APPENDIX XXXX

REPORT ON THE OFFICE FOR DISABILITY SERVICES
DIVISION OF STUDENT AFFAIRS

Presented to the Student Affairs Committee
(See page 1091)
OFFICE FOR DISABILITY SERVICES
DIVISION OF STUDENT AFFAIRS

Mandate

Section 504 of the Rehabilitation Act of 1973

No otherwise qualified handicapped individual in the United States *** shall solely by reason of his handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

Mission Statement

The mission of the Office for Disability Services is to ensure that all disabled individuals can freely and actively participate in all facets of University life; to provide and coordinate support services and programs to enable disabled students to maximize their educational potential and to develop their independence to the fullest extent possible; and to increase the level of awareness among all members of the University community in order to enable disabled individuals to perform at a level limited only by their abilities, not their disabilities.

Objectives

Provide, promote, and/or coordinate those services and programs necessary to ensure access for all disabled students.

Provide and coordinate academic support services which enable disabled students to participate in the educational experience limited only by their abilities, not their disabilities.

Identify and remove those physical and attitudinal barriers which prevent disabled individuals from being full and equal participants in all facets of the University experience.

Assist in the retention of high risk students through early identification of learning disabled students and prescriptive application of support services and skill development.

Improve the quality of services received by disabled students through ongoing program evaluation surveys and student needs assessments.

Maximize the human, fiscal, and physical resources of the program through effective and creative management.

Enhance and augment programs and services available to disabled students through external funding when possible.
THE OHIO STATE UNIVERSITY  
OFFICE FOR DISABILITY SERVICES  

Fact Sheet

**Staffing:**

<table>
<thead>
<tr>
<th>Position</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Staff-Columbus</td>
<td>8</td>
</tr>
<tr>
<td>Professional Staff-Regional</td>
<td>3</td>
</tr>
<tr>
<td>Campuses &amp; ATI</td>
<td></td>
</tr>
<tr>
<td>Support Staff</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Research Associates</td>
<td>3</td>
</tr>
<tr>
<td>Student Employees</td>
<td>13</td>
</tr>
<tr>
<td>Volunteers</td>
<td>148</td>
</tr>
</tbody>
</table>

**Professional Staff FTE:**

<table>
<thead>
<tr>
<th>Campus</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>7.1</td>
</tr>
<tr>
<td>Regional Campuses &amp; ATI</td>
<td>2.0</td>
</tr>
<tr>
<td>Total</td>
<td>9.1</td>
</tr>
</tbody>
</table>

**Annual Budget:**

<table>
<thead>
<tr>
<th>Campus</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>$348,420</td>
</tr>
<tr>
<td>Regional Campuses &amp; ATI</td>
<td>$47,310</td>
</tr>
<tr>
<td>Total</td>
<td>$395,730</td>
</tr>
</tbody>
</table>

**Clients Assisted:**

<table>
<thead>
<tr>
<th>Disability</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning Disabled Students</td>
<td>499</td>
</tr>
<tr>
<td>Mobility Impaired Students</td>
<td>211</td>
</tr>
<tr>
<td>Visually Impaired Students</td>
<td>66</td>
</tr>
<tr>
<td>Hearing Impaired Students</td>
<td>28</td>
</tr>
<tr>
<td>Other Disabled Students</td>
<td>153</td>
</tr>
<tr>
<td>Total Number of Disabled Students</td>
<td>957</td>
</tr>
<tr>
<td>Temporarily Impaired Students</td>
<td>468</td>
</tr>
<tr>
<td>Disabled Faculty and Staff</td>
<td>157</td>
</tr>
</tbody>
</table>

**Statistics for '88-'89**

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours of Academic Testing Accommodations</td>
<td>5,002</td>
</tr>
<tr>
<td>Final Exams Proctored</td>
<td>625</td>
</tr>
<tr>
<td>Exams Taken Using the Closed Circuit TV</td>
<td>317</td>
</tr>
<tr>
<td>Hours of Textbook Recording</td>
<td>678</td>
</tr>
<tr>
<td>Hours of Volunteer Testing Assistance</td>
<td>554</td>
</tr>
<tr>
<td>Hours of Tutoring Assistance</td>
<td>504</td>
</tr>
<tr>
<td>Students Given Diagnostic Tests for Learning Disabilities</td>
<td>264</td>
</tr>
<tr>
<td>Adapted Transportation Passenger Trips</td>
<td>22,702</td>
</tr>
<tr>
<td>Disability Parking Permits Issued</td>
<td>205</td>
</tr>
<tr>
<td>Hours of Computer Instruction</td>
<td>811</td>
</tr>
<tr>
<td>Hours of Interpreter Usage</td>
<td>173</td>
</tr>
</tbody>
</table>

* Does not include benefits.

** From Spring '88 through Winter '89.
FUNCTIONAL ORGANIZATION CHART OF THE OFFICE FOR DISABILITY SERVICES

DISABILITY SERVICES

- Administration
  - Accounting
  - Budget
  - Personnel
  - Planning
  - Policy Development
  - Proposal Development
  - Publications
  - Research & Evaluation

Support Services
- Orientation
- Eligibility Determination
- Liaison with State Vocational Rehab.

Academic Support Services
- Priority Scheduling
- Textbook Taping
- Personal Readers
- Peer Tutoring
- Interpreter Coord.
- Notetakers
- Equipment Loan
- Adaptive Equipment
- Computer Learning Center

Counseling
- Adjustment Counseling
- Psychosocial Counseling
- Academic Counseling
- Vocational Counseling
- Support Groups

Replicated for each of the 5 major disability groups: mobility impaired, visually impaired, hearing impaired, learning disabled and chronically health impaired.

Education, Outreach and Training

Within Ohio State
- Skill Workshops
- Career Workshops
- Computer Training
- Practicum
- Supervision
- Volunteer Recruiting and Training
- Faculty Inservice
- Awareness Workshops

Outside Ohio State
- College Nights
- Selective Recruiting
- Prospective Student Contact
- Liaison with Other Agencies
- Community Liaison
- Liaison with Professional Assoc.

Diagnosis for Learning Disabilities

- Initial Screening
- Diagnostic Testing
- Interpretation
- Prescription for Accommodations
- Referral
- Option Counseling

Services to the Regional Campuses
- Service Coord.
- Prescription for Accommodations
- Diagnostic Testing for Learning Disabilities
- Learning Disability Services
- Equipment Loan

Replicated on each of the 4 Regional Campuses and ATI.

Advocacy
- Faculty Consultation
- Intervention
- 504 Compliance Review
- Architectural Review
- 503 Assistance

Physical Support Services
- Disability Parking
- Adapted Transportation
- Access Services
- Access Guides
APPENDIX XXXXI

ORGANIZATIONAL REVIEW TEAM AND
THE ORGANIZATIONAL REVIEW RECOMMENDATIONS

Presented to the Agricultural Affairs Committee
(See page 1096)
February 13, 1989

To: Administrative Cabinet
Re: Organizational Review, Major Issues/Concerns
From: Keith L. Smith, Organizational Development

As stated before, the major purpose of the Organizational Review Team was to examine the Ohio Cooperative Extension Service and specifically look at the organizational structure of our organization, to offer suggestions of how we might be organized for best communication and delivery of our programs, taking into account our new long range report and our new staffing patterns. With this charge in mind, the following key issues were raised.

1. Span of Control.
   The director of the Ohio Cooperative Extension Service and to a lesser extent the five district supervisors of the organization were identified as having too large a span of control.

2. Coordination of Statewide Extension Programs.
   The two major points were
   a) there needs to be a point of coordination, specifically a person in the system who has overall responsibility for program planning
   b) role clarification, especially at the district specialist level.

   The committee felt issue programming will be a key and important element of future programming. They suggest that in addition to statewide task forces related to key issues, center structures on campus and multi-county units be considered as important methods to implement multi-disciplinary and interdisciplinary issue programming. This would also tie in with the focus on programs under item 2.

   a) Computer-communications - encouraged a combination in this area
   b) Staff development - a combination with personnel and suggesting at least one to two FTEs be identified in the staff development area.
   c) Coordination - recommended that one person should coordinate the support unit structure.
5. Role in Relationship between Assistant Directors, Department Chairs, and District Supervisors.
   a) Role clarification. A great deal of confusion appears to exist in the organization about the role of these different personnel. Suggestions for a council to bring these three groups together.

6. The Role and Function of District Specialists.
   Here again, the question as to roles. Are they district program coordinators? Do they serve as an area agents? Or as district specialists? A suggestion also on reporting or who they would answer to.

7. Integration of Specialists in 4-H and CNRD into Departments.
   A suggestion that in the case of both 4-H and CNRD, recognize the multi-disciplinary nature of these areas and encourage faculty to be integrated into a variety of departments rather than a single department. A suggestion that the 4-H program area look into the youth center concept.

8. Promotion and Tenure.
   The major recommendation was for administration to make a concerted effort with OSU central administration to adapt the promotion and tenure system so that Extension faculty are evaluated on the basis of their job functions. They also supported the move toward joint research and Extension appointments for state specialists.

9. Cultural and Ethnic Diversity in Clientele and Staff.
   A noticeable lack of discussion and expression of the concern about strengthening the efforts to reach an increasingly, culturally diverse audience. Need to concentrate more on affirmative action efforts.

10. Commitment to CNRD.
    Concern was that CNRD appears to be more of a supplemental program than a high priority mainstream program. The question is, is CNRD a high priority for OCES? And if so, serious attention needs to be given to this area in the form of resource allocation, increased staff development, and training.

Other related observations made by the team were that there appears to be two Extension program agendas in Ohio, one developed by personnel at the district and county level and the other at the state level by department chairs and specialists. There was concern that we might have five Extension program agendas rather than one. Also, how do we bring together the apparent divergence of objectives between the assistant directors who focus on programs and district supervisors who focus on personnel and staffing. As a result of the recommendations/issues and other observations, the organizational chart was suggested to put more focus on programs, to coordinate the administrative support staff structure to provide for quality communications, and to free up the director from his overload span of control.

Other specifics from the recommendations can be noted on the chart.
This is my response to the Organizational Review Team's recommendations. I am very pleased with the way the Review Team took their responsibility seriously. They listened carefully and made recommendations that will allow us to fulfill our mission of being a research based organization that delivers educational programs in response to the needs of the people.

I also want to thank each of you for your input, especially those who took time to visit with the Review Team. It was very helpful to have input from all phases of the organization.

On February 13, you received a memo from Keith Smith in which he summarized the areas of concern identified by the Review Team and the recommendations they presented to us. We appreciate the excellent response. Since that time, administrative cabinet and department chairs met and heard reports from different segments of our Extension faculty responding to each of the areas of concern. I want to thank Larry Ault, Kathy Cox, Joe Pittman, Ruth Conone, Keith Smith, Bob Troutman, and Fred Miller for taking the responsibility of summarizing the responses into concise reports.

The Review Team made several recommendations. Some of these, we can come to closure on at the present time, and others will require further study. One theme that was very common throughout the entire review was that the organization needs to concentrate more on programs. I suppose that is understandable, since in the last two to three years, we have concentrated mostly on administrative matters such as downsizing. We are making good progress on new county staffing patterns. It is time for us to emphasize programs. We want to be a program driven organization, and in order to do that we must highlight and focus upon the priority program areas.

The following is my response to the ten points of the February 13 memo from Keith Smith.

1. **Span of Control.** The Review Team recommended that we reduce the number of people reporting directly to the director. The team recommended two associate directors, one for administration and one for program with the
administrative support units reporting directly to the associate director for administration and all others reporting to the associate director for programs. I see this as a long-term recommendation. However, with our present budget constraints, I do not feel that we can justify adding a second associate director. Therefore, we will have one associate director with primary responsibility for administration for the day-to-day operations of the organization. The administrative support units will be reporting directly to that person. The associate director will also act on behalf of the director when the director is not available. As the director, I will give overall leadership for the program part of the organization working more closely with and through the assistant directors for program. There will be four assistant directors, one for each of the four major program areas, Agriculture, 4-H, Home Economics, and Community and Natural Resource Development. The assistant directors will be responsible for working directly with their assigned program area as well as having responsibility for issue based programs. The assistant directors will have responsibility for the coordination of the statewide program in Extension. The assistant directors, department chairs, and the district supervisors must work closely together to make sure that the departments, districts, and counties have adequate input into the program development process and that the programs in all three are integrated into a coordinated program.

The transition team of Chuck Lifer, Keith Smith, and John Stitzlein will continue until the associate director position is filled.

A search process will be initiated immediately to fill the positions of associate director and three assistant directors (agriculture, 4-H, and CNRD). We will use an internal search for the associate director position and a national search for the three assistant director positions.

The state specialists will continue to be housed in the academic units and will be responsible to the appropriate department chair. However, I foresee more interdisciplinary and multidisciplinary program efforts occurring, especially as we address issue based programming. This will necessitate academic units working more closely together in solving problems that relate to major issues.

Multi-county agents will continue to be responsible to the district
supervisors. A task force has been appointed and is currently working to provide input as to how the organization can respond to the needs of the multi-county and single county agents, and chairs in the counties that are involved in a multi-county staffing arrangement.

We have just completed an in-service which was very helpful in identifying some of the concerns and the constraints that multi-county agents/chairs/single county agents currently face. We are in the process of addressing each of these concerns at the present time.

We are pursuing the possibility of changing district supervisors titles to district directors. This is more appropriately in line with the titles of Extension middle managers in other states. Their responsibilities probably would not change. It would only allow us to have a more appropriate title equal to their peers in other states.

2. Coordination of Statewide Extension Programs.
At the present time, we have appointed a program committee, chaired by Chuck Lifer. The committee is charged to develop a program development process by which everyone understands their role and responsibility in developing a coordinated statewide program that will have major impact upon individuals, families, farms and communities in Ohio. They are also charged with developing a streamlined reporting system, to report necessary results that include impact of programs. The assistant directors will have the responsibility of coordinating and integrating programming efforts of districts, counties, and departments into a focused statewide program.

3. Development and Coordination of Issue Programming. It is essential that the issue programming process be integrated into the overall program planning process. The issue based program is not just for those serving on the six issue task forces, but for the entire organization. The task force responsibility is to develop the statement, and set the direction for the issue so that the organization can develop programs that respond to that particular issue. Programming to respond to issues will become a vital part of our statewide program planning process. Again I will look to the assistant directors to provide the leadership of integrating the issue based programming process into the statewide Extension program.

4. Structure and Organization for Support Units. The Review Team
recommended that we combine several of the support units; Computer Management with Information and Applied Communications, Personnel with Personnel Development, and Program Evaluation with Reporting. These are excellent recommendations that should be seriously considered. However, the final decision will not be made until the Associate Director has been identified and is on board. In the meantime, we will continue to talk with those individuals involved to determine what is best for those units and the organization.

In the personnel and personnel development area, the Review Team recommends that we should add more FTEs to this area. I would agree that this needs to be done, and as budget permits, we will move in that direction. It is important that we strengthen these areas so that we can make sure that we are attracting high quality personnel to the organization retaining the quality people that we have as well as further strengthening our faculty and staff professionally for the future.

5. Role and Relationship among Assistant Directors, Department Chairs, and District Supervisors. The Review Team recommends that the role of these individuals be clarified. The clarification of their role will become more apparent once the program planning process has been finalized. Through this process, all individuals within the organization will be able to clearly understand what their role is.

6. The Role and Function of District Specialists. It was very apparent that the district specialists are involved in three different ways: 1) as program leaders, 2) area agents, and 3) specialists. I will be working with the district supervisors, district specialists, assistant directors, and department chairs to determine the appropriate role of the district specialists. This may vary depending on the program area, but I believe there should be at least one person from each program area who should be assigned a portion of his/her time to provide program leadership and coordination within the district. The remainder of their time should be utilized as a specialist. District specialists will be administratively responsible to the district supervisors with subject matter responsibility to the appropriate academic unit.

7. Integration of Specialists in 4-H and CNRD into Departments. Moving state specialists from 4-H and CNRD into academic departments will be a
long-term goal wherever this is appropriate. This will be especially true when new replacements are hired. When that opportunity presents itself, we will seriously consider what should be the appropriate academic home. This integration will be in a number of departments rather than a single department. We need to strengthen the research base in both the 4-H and the CNRD program areas. If we are going to be an organization that disseminates research based information, then it is very important that we have a research base behind all of our program areas including CNRD and 4-H youth development.

We are going to seriously consider the "center" concept for the youth development program, whereby faculty expertise is drawn from several university departments to strengthen the overall program effort in youth development. These linkages and networks with departments outside the four current Colleges will provide us with resources we need but do not have in Agriculture, Home Economics, Veterinary Medicine, or Biological Science. This arrangement should also strengthen our research base as well. These specialists from several academic units working with the "center" will also provide more of an interdisciplinary focus on youth development.

8. Promotion and Tenure. We will be working closely with the administration, both within the College and at the University level to make sure the promotion and tenure guidelines appropriately evaluate Extension faculty based upon their job responsibilities.

9. Cultural and Ethnic Diversity in Clientele and Staff. It is important for us to strengthen our efforts to become more of a culturally diverse organization so that we can reach out to a broader clientele. A year ago each college and department in the university including Extension was asked to submit a four-year affirmative action plan, and at about the same time, our organization was asked to submit a plan in response to an ES-USDA civil rights compliance review. Both contained a number of proposed actions and goals. Several of those have been initiated including increasing the number of minority faculty and female administrators. Progress has been made with both, but more remains to be done in initiating and achieving these and other actions and goals identified in the plans.
One of the actions includes the reactivation of an affirmative action committee. This is currently being done. The new members will be asked to implement the two plans and take other actions as appropriate. Further, I challenge each of you to look for opportunities and take actions that increase the cultural and ethnic diversity of our organization and clientele.

10. Commitment of CNRD. Concern was expressed that CNRD appears to be more of a supplemental program than a high priority mainstream program. Community and Natural Resource Development has been identified in the Long Range Plan as one of our four major program areas. Therefore, it is necessary that we increase our effort in CNRD. One way to accomplish this is to put more resources into this area. This we plan to do as we have additional funds. With limited resources, this will not happen overnight, however, I do believe that there are ways we can do some redirection that will allow us to increase our programming efforts in CNRD. We have already started discussions with the appropriate people to determine how we might accomplish this. We will continue these discussions and, would welcome your input.

I hope that this will give you an overview of my thinking concerning the organizational review process and recommendations for the future. We will keep you informed as we continue to bring closure to more of the Review Team recommendations. All of this will be discussed in more detail as we meet with you during the spring conferences.

I believe strongly in the Ohio Cooperative Extension Service. As I travel across this state, I receive very positive feedback about what you are doing and the impact your programs are making. We are going through a major transition at the present time, but I hope the changes that are made will help us become a more futuristic organization that develops research based educational programs that respond to the needs of people in the state of Ohio. I appreciate what you are doing and look forward to working with you in "making it happen" for the future.

Bobby D. Moser
Director
OCES

4/12/89
Page 1182 is blank
APPENDIX XXXXII

THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET - 3RD QUARTER REPORT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees May 4, 1989
(See page 1097)
Summary of Proposed Resources
(In Thousands of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1988-89</th>
<th>Estimated 1988-89</th>
<th>Increase</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$420,590</td>
<td>$420,950</td>
<td>$360</td>
<td>.1%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>322,400</td>
<td>323,590</td>
<td>1,190</td>
<td>.4%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>192,820</td>
<td>198,320</td>
<td>5,500</td>
<td>2.9%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$935,810</td>
<td>$942,860</td>
<td>$7,050</td>
<td>.8%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24,240</td>
<td>24,580</td>
<td>340</td>
<td>1.4%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>30,110</td>
<td>30,110</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$990,160</td>
<td>$997,550</td>
<td>$7,390</td>
<td>.7%</td>
</tr>
</tbody>
</table>
### Summary of Proposed Uses
(In Thousands of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1988-89</th>
<th>Estimated 1988-89</th>
<th>Increase</th>
<th>% Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$420,590</td>
<td>$420,950</td>
<td>$360</td>
<td>.1%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>322,400</td>
<td>323,580</td>
<td>1,180</td>
<td>.4%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>192,820</td>
<td>198,320</td>
<td>5,500</td>
<td>2.9%</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$935,810</td>
<td>$942,850</td>
<td>$7,040</td>
<td>.8%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>23,920</td>
<td>24,250</td>
<td>330</td>
<td>1.4%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>30,110</td>
<td>30,110</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$989,840</td>
<td>$997,210</td>
<td>$7,370</td>
<td>.7%</td>
</tr>
</tbody>
</table>
### All Funds Resources Summary
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1988-89</th>
<th>Budgeted 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$247.97</td>
<td>$0.00</td>
<td>$35.61</td>
<td>$283.58</td>
<td>$284.72</td>
</tr>
<tr>
<td>Student Fees</td>
<td>140.14</td>
<td>5.41</td>
<td>.00</td>
<td>145.55</td>
<td>144.55</td>
</tr>
<tr>
<td>Other Resources</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>16.67</td>
<td>.00</td>
<td>79.50</td>
<td>96.17</td>
<td>94.03</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>.41</td>
<td>.00</td>
<td>13.65</td>
<td>14.06</td>
<td>12.05</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>.70</td>
<td>.00</td>
<td>11.86</td>
<td>12.56</td>
<td>12.44</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>3.73</td>
<td>.00</td>
<td>50.00</td>
<td>53.73</td>
<td>51.00</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>1.40</td>
<td>.00</td>
<td>7.70</td>
<td>9.10</td>
<td>9.10</td>
</tr>
<tr>
<td>Department and University Services</td>
<td>.41</td>
<td>27.02</td>
<td>.00</td>
<td>27.43</td>
<td>27.43</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>.02</td>
<td>81.33</td>
<td>.00</td>
<td>81.35</td>
<td>82.09</td>
</tr>
<tr>
<td>Hospital Sales &amp; Services</td>
<td>.00</td>
<td>201.93</td>
<td>.00</td>
<td>201.93</td>
<td>201.35</td>
</tr>
<tr>
<td>Other Sources</td>
<td>9.50</td>
<td>7.90</td>
<td>.00</td>
<td>17.40</td>
<td>17.05</td>
</tr>
<tr>
<td>Total Other Resources</td>
<td>$32.84</td>
<td>$318.18</td>
<td>$162.71</td>
<td>$513.73</td>
<td>$506.54</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$420.95</td>
<td>$323.59</td>
<td>$198.32</td>
<td>$942.86</td>
<td>$935.81</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>11.91</td>
<td>.00</td>
<td>.02</td>
<td>11.93</td>
<td>12.18</td>
</tr>
<tr>
<td>Student Fees</td>
<td>8.91</td>
<td>.25</td>
<td>.00</td>
<td>9.16</td>
<td>8.82</td>
</tr>
<tr>
<td>Other Resources</td>
<td>.54</td>
<td>.87</td>
<td>2.08</td>
<td>3.49</td>
<td>3.24</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td>$21.36</td>
<td>$1.12</td>
<td>$2.10</td>
<td>$24.58</td>
<td>$24.24</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>.00</td>
<td>.00</td>
<td>19.54</td>
<td>19.54</td>
<td>19.54</td>
</tr>
<tr>
<td>Federal</td>
<td>.00</td>
<td>.00</td>
<td>6.65</td>
<td>6.65</td>
<td>6.65</td>
</tr>
<tr>
<td>All Other</td>
<td>.00</td>
<td>1.60</td>
<td>2.32</td>
<td>3.92</td>
<td>3.92</td>
</tr>
<tr>
<td><strong>Total OARDC</strong></td>
<td>.00</td>
<td>$1.60</td>
<td>$28.51</td>
<td>$30.11</td>
<td>$30.11</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>259.88</td>
<td>.00</td>
<td>55.17</td>
<td>315.05</td>
<td>316.44</td>
</tr>
<tr>
<td>Student Fees</td>
<td>149.05</td>
<td>5.66</td>
<td>.00</td>
<td>154.71</td>
<td>153.37</td>
</tr>
<tr>
<td>Other Resources</td>
<td>33.38</td>
<td>320.65</td>
<td>173.76</td>
<td>527.79</td>
<td>520.35</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
<td>$442.31</td>
<td>$326.31</td>
<td>$228.93</td>
<td>$997.55</td>
<td>$990.16</td>
</tr>
</tbody>
</table>

1186
# THE OHIO STATE UNIVERSITY

## 1988-89 CURRENT FUNDS BUDGET

### 3RD QUARTER REPORT

### All Funds Uses Summary

(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1988-89</th>
<th>Budgeted 1988-89</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>$420.01</td>
<td>$32.43</td>
<td>$184.13</td>
<td>$636.57</td>
<td>$630.71</td>
</tr>
<tr>
<td><strong>Auxiliary Enterprises</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>.00</td>
<td>37.45</td>
<td>.00</td>
<td>37.45</td>
<td>36.42</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>.00</td>
<td>17.10</td>
<td>3.60</td>
<td>20.70</td>
<td>20.70</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>.94</td>
<td>29.90</td>
<td>.00</td>
<td>30.86</td>
<td>31.02</td>
</tr>
<tr>
<td><strong>Total Auxiliaries</strong></td>
<td>$.94</td>
<td>$84.45</td>
<td>$3.60</td>
<td>$88.99</td>
<td>$88.14</td>
</tr>
<tr>
<td>University Hospitals</td>
<td>.00</td>
<td>206.70</td>
<td>10.59</td>
<td>217.29</td>
<td>216.96</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$420.95</td>
<td>$323.58</td>
<td>$198.32</td>
<td>$942.85</td>
<td>$935.81</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>4.75</td>
<td>.78</td>
<td>.63</td>
<td>6.16</td>
<td>5.83</td>
</tr>
<tr>
<td>Lime Campus</td>
<td>4.48</td>
<td>.12</td>
<td>.43</td>
<td>5.03</td>
<td>5.03</td>
</tr>
<tr>
<td>Mansfield Campus</td>
<td>4.04</td>
<td>.08</td>
<td>.36</td>
<td>4.48</td>
<td>4.53</td>
</tr>
<tr>
<td>Marion Campus</td>
<td>3.60</td>
<td>.03</td>
<td>.42</td>
<td>4.05</td>
<td>3.88</td>
</tr>
<tr>
<td>Newark Campus</td>
<td>4.16</td>
<td>.12</td>
<td>.26</td>
<td>4.54</td>
<td>4.66</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td>$21.03</td>
<td>$1.12</td>
<td>$2.10</td>
<td>$24.25</td>
<td>$23.92</td>
</tr>
<tr>
<td>OAARC</td>
<td>.00</td>
<td>1.60</td>
<td>28.51</td>
<td>30.11</td>
<td>30.11</td>
</tr>
<tr>
<td><strong>Total Uses</strong></td>
<td>$441.98</td>
<td>$326.30</td>
<td>$228.93</td>
<td>$997.21</td>
<td>$989.84</td>
</tr>
</tbody>
</table>
## Distribution of 1988-89 Resources

Central Campus, Regional Campuses & OARDC

(In Thousands of Dollars)

<table>
<thead>
<tr>
<th>Source</th>
<th>All Funds</th>
<th>Percent of Total</th>
<th>Unrestr. General(4)</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>$315,050</td>
<td>31.6%</td>
<td>$259,880</td>
<td>58.8%</td>
</tr>
<tr>
<td>Federal Grants &amp; Contracts</td>
<td>102,820</td>
<td>10.3%</td>
<td>16,670</td>
<td>3.8%</td>
</tr>
<tr>
<td>Other Government Sources</td>
<td>26,620</td>
<td>2.7%</td>
<td>1,110</td>
<td>.3%</td>
</tr>
<tr>
<td>Student Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructional (1)</td>
<td>149,050</td>
<td>14.9%</td>
<td>149,050</td>
<td>33.7%</td>
</tr>
<tr>
<td>Non-Credit Instruction</td>
<td>5,660</td>
<td>.6%</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td>Hospitals Sales / Services</td>
<td>201,930</td>
<td>20.2%</td>
<td>0</td>
<td>.0%</td>
</tr>
<tr>
<td>Other Sales / Services (2)</td>
<td>108,780</td>
<td>10.9%</td>
<td>430</td>
<td>.1%</td>
</tr>
<tr>
<td>Private Gifts &amp; Grants</td>
<td>53,730</td>
<td>5.4%</td>
<td>3,730</td>
<td>.8%</td>
</tr>
<tr>
<td>Endowment</td>
<td>9,100</td>
<td>.9%</td>
<td>1,400</td>
<td>.3%</td>
</tr>
<tr>
<td>Other Sources (3)</td>
<td>24,810</td>
<td>2.5%</td>
<td>10,040</td>
<td>2.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$997,550</td>
<td>100.0%</td>
<td>$442,310</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

(1) Includes instructional, general, non-resident, and misc. other fees.
(2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
(3) Includes temporary investments, prior years’ earnings, rental income, etc.
(4) Excludes all earnings and restricted funds.
APPENDIX XXXXIII

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
JANUARY - MARCH 1989

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees May 4, 1989
(See page 1097)
During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 29 waivers of competitive bidding requirements. Annual purchases authorized by these waivers total approximately $2,652,700.00. The purchases included:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
<th>Waivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio &amp; TV Programs</td>
<td>$750,000</td>
<td>(1 waiver)</td>
</tr>
<tr>
<td>Hospital Equipment &amp; Services</td>
<td>602,700</td>
<td>(4 waivers)</td>
</tr>
<tr>
<td>Emergency Helicopter Transport Services</td>
<td>515,000</td>
<td>(1 waiver)</td>
</tr>
<tr>
<td>Hospital Advertising</td>
<td>175,000</td>
<td>(1 waiver)</td>
</tr>
<tr>
<td>Professional Medical Services</td>
<td>122,000</td>
<td>(2 waivers)</td>
</tr>
<tr>
<td>Conference Facilities</td>
<td>160,000</td>
<td>(2 waivers)</td>
</tr>
<tr>
<td>Teaching &amp; Research Equipment &amp; Services</td>
<td>131,344</td>
<td>(8 waivers)</td>
</tr>
<tr>
<td>Historic Clothing</td>
<td>87,400</td>
<td>(2 waivers)</td>
</tr>
<tr>
<td>Fundraising Consulting &amp; Services</td>
<td>50,955</td>
<td>(3 waivers)</td>
</tr>
<tr>
<td>Administrative Support Services &amp; Equipment</td>
<td>46,930</td>
<td>(4 waivers)</td>
</tr>
<tr>
<td>Artists' Services</td>
<td>11,336</td>
<td>(1 waiver)</td>
</tr>
</tbody>
</table>
APPENDIX XXXXIV

EQUINE CENTER
FOOD FACILITY FREEZER ADDITION - STORES AND RECEIVING BUILDING

Adopted by the Board of Trustees May 4, 1989
(See page 1116)
OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
FOOD FACILITY FREEZER ADDITION
STORES AND RECEIVING BUILDING

PROPOSED FREEZER ADDITION

STORES AND RECEIVING

KENNY ROAD

SERVICE ANNEX

LAUNDRY BUILDING

PRINT FACILITY

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
Page 1194 is blank
APPENDIX XXXXV

PROJECTS FUNDED BY AMENDED HOUSE BILL 810

Adopted by the Board of Trustees May 4, 1989
(See page 1118)
CAPITAL APPROPRIATION PROJECTS
BIOSCIENCE/PARKS HALL ADDITION

BIOSCIENCE/PARKS HALL ADDITION

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
DENTAL INSTRUCTIONAL LAB IMPROVEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
EVANS LABORATORY ADDITION

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
LIBRARY BOOK WAREHOUSE

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
NORTH STAR BUILDING ADDITION

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATIONS PROJECTS
SEAGRANTS SCHOOL PROJECTS
SOUTH BASS AND GIBRALTAR ISLANDS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
CLASSROOM IMPROVEMENTS

NORTHWEST PARKING RAMP
WOODY HAYES DRIVE
IVES DRIVE
WOODRUFF AVENUE
HITCHCOCK HALL
BRICKER HALL
INDEPENDENCE HALL
17TH AVENUE
NEIL AVENUE
HUGHES HALL

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
ROOF REPLACEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
MASONRY IMPROVEMENTS

WOODRUFF AVENUE
KOFFOLT LABORATORY
19TH AVENUE

18TH AVENUE

17TH AVENUE

BRICKER HALL

CAMPBELL HALL

POMERENE HALL

BOTANY AND ZOOLOGY BUILDING

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
WINDOW REPLACEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
CAMPUS ENERGY CONTROLS
( HVAC SYSTEMS )

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
ELEVATOR REPLACEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
REFUSE FACILITY UPGRADING

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
MECHANICAL IMPROVEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
CHILLER REPLACEMENTS

CIVIL AND AERONAUTICAL ENGINEERING

Sisson Hall

Wiseman Hall

Office of Business and Administration
May 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
SITE RENOVATIONS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATION PROJECTS
BASIC RENOVATION
BRIDGE AND STREET IMPROVEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
BASIC RENOVATION PROJECTS
REGIONAL CAMPUS,
LIMA

GALVIN HALL LOT

SERVICE BUILDING

LIMA TECHNICAL COLLEGE

GALVIN HALL

ROOF AND MASONARY REPAIRS

CAMPUS DRIVE

REED HALL

PARKING LOT

LIGHTING UPGRADE

REED HALL

PARKING LOT

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
BASIC RENOVATION PROJECTS
REGIONAL CAMPUSES
NEWARK

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
CAPITAL APPROPRIATIONS PROJECTS
SUPPLEMENTAL RENOVATIONS

McPherson Laboratory
Roof Replacement

Brown Hall Roof Replacement

Bohannan Road

17th Avenue

Sullivan Hall Renovation, Phase II

Hagerty Hall, Room 100

Office of Business and Administration
May 4, 1989
Page 1218 is blank
APPENDIX XXXXVI

HAMILTON HALL RENOVATION
POSTLE HALL ORAL BIOLOGY LABORATORY
ST. JOHN ARENA - ROOF REPLACEMENT

Adopted by the Board of Trustees May 4, 1989
(See page 1128)
# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

**HAMILTON HALL RENOVATION**

Tabulation of Bids

Bids received by the Ohio Department of Administrative Services, Division of Public Works, on January 19, 1989, and March 30, 1989. Bids opened by Janet Sutton and tabulated by Danielle Braden. Awards indicated with an **.

### General Contract

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Messer *</th>
<th>Smoot</th>
<th>Shook</th>
<th>Settelin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$6,618,311.00</td>
<td>$4,834,000.00</td>
<td>$4,824,000.00</td>
<td>$4,947,000.00</td>
<td>$4,980,000.00</td>
</tr>
<tr>
<td>Alt. G-1 (Cold Room 131)</td>
<td>$29,600.00</td>
<td>$22,000.00</td>
<td>$20,500.00</td>
<td>$18,500.00</td>
<td>$18,700.00</td>
</tr>
<tr>
<td>Alt. G-3 (Cold Room 141)</td>
<td>$22,600.00</td>
<td>$22,000.00</td>
<td>$20,500.00</td>
<td>$18,500.00</td>
<td>$18,700.00</td>
</tr>
<tr>
<td>Alt. G-4 (Purse Boods A)</td>
<td>$8,700.00</td>
<td>$6,800.00</td>
<td>$5,700.00</td>
<td>$4,500.00</td>
<td>$4,500.00</td>
</tr>
<tr>
<td>Alt. G-5 (Purse Boods B)</td>
<td>$82,848.00</td>
<td>$31,000.00</td>
<td>$64,500.00</td>
<td>$32,000.00</td>
<td>$31,300.00</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$6,769,109.00</strong></td>
<td><strong>$4,915,000.00</strong></td>
<td><strong>$4,934,500.00</strong></td>
<td><strong>$5,020,500.00</strong></td>
<td><strong>$5,053,200.00</strong></td>
</tr>
</tbody>
</table>

(Includes all Alternates)

### Fire Protection Contract

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$173,670.00</td>
<td>$171,436.00</td>
<td>$189,288.00</td>
<td>$210,377.00</td>
<td>$244,000.00</td>
</tr>
</tbody>
</table>

### Plumbing Contract

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>J. A. Croson * *</th>
<th>Radico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,160,604.00</td>
<td>$1,519,900.00</td>
<td>$1,526,000.00</td>
</tr>
<tr>
<td>Alt. P-1 (Cold Room 131)</td>
<td>$1,000.00</td>
<td>$800.00</td>
<td>$1,000.00</td>
</tr>
<tr>
<td>Alt. P-2 (Cold Room 141)</td>
<td>$1,000.00</td>
<td>$800.00</td>
<td>$1,000.00</td>
</tr>
<tr>
<td>Alt. P-3 (Purse Boods A)</td>
<td>$1,700.00</td>
<td>$600.00</td>
<td>$700.00</td>
</tr>
<tr>
<td>Alt. P-4 (Purse Boods B)</td>
<td>$13,600.00</td>
<td>$4,800.00</td>
<td>$5,700.00</td>
</tr>
<tr>
<td><strong>Total Plumbing Contract</strong></td>
<td><strong>$1,177,904.00</strong></td>
<td><strong>$1,526,900.00</strong></td>
<td><strong>$1,534,400.00</strong></td>
</tr>
</tbody>
</table>

(Includes all Alternates)

* Plumbing Contract is in excess of filed estimate of costs; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
### HVAC Contract

<table>
<thead>
<tr>
<th>Bid Type</th>
<th>Estimate</th>
<th>J. A. Croson</th>
<th>Julian Speer</th>
<th>Lilbach</th>
<th>J. A. Guy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$4,067,065.00</td>
<td>$3,255,000.00</td>
<td>$3,566,000.00</td>
<td>$3,578,200.00</td>
<td>$3,570,000.00</td>
</tr>
<tr>
<td>Alt. H-1 (Steam Service)</td>
<td>$17,500.00</td>
<td>$14,500.00</td>
<td>$12,300.00</td>
<td>$15,747.00</td>
<td>$16,300.00</td>
</tr>
<tr>
<td>Alt. H-2 (Cold Room 132)</td>
<td>$1,000.00</td>
<td>$700.00</td>
<td>$500.00</td>
<td>$800.00</td>
<td>$200.00</td>
</tr>
<tr>
<td>Alt. H-3 (Cold Room 141)</td>
<td>$1,000.00</td>
<td>$700.00</td>
<td>$500.00</td>
<td>$660.00</td>
<td>$1,700.00</td>
</tr>
<tr>
<td>Alt. H-4 (Pne Hoods A)</td>
<td>$6,000.00</td>
<td>$4,700.00</td>
<td>$5,000.00</td>
<td>$3,270.00</td>
<td>$6,700.00</td>
</tr>
<tr>
<td>Alt. H-5 (Pne Hoods B)</td>
<td>$48,000.00</td>
<td>$35,300.00</td>
<td>$38,000.00</td>
<td>$26,800.00</td>
<td>$40,000.00</td>
</tr>
</tbody>
</table>

**Total HVAC Contract**

$4,140,565.00  $3,110,900.00  $3,622,300.00  $3,625,477.00  $3,634,900.00

(Includes Alternates H-1 through H-5)

Alternates not taken:

- Alt. H-6 (Andover Controls)
  - $0.00
  - $17,000.00
  - $0.00
  - $20,000.00
  - $16,000.00

- Alt. H-7 (Berber Controls)
  - $0.00
  - $43,000.00
  - $39,800.00
  - $23,700.00
  - $44,000.00

### Electric Contract

<table>
<thead>
<tr>
<th>Bid Type</th>
<th>Estimate</th>
<th>Royal</th>
<th>Colgan</th>
<th>Buckeye</th>
<th>Electric Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,754,525.00</td>
<td>$1,246,600.00</td>
<td>$1,358,550.00</td>
<td>$1,423,000.00</td>
<td>$1,975,500.00</td>
</tr>
<tr>
<td>Alt. E-1 (Cold Room 132)</td>
<td>($350.00)</td>
<td>$0.00</td>
<td>$230.00</td>
<td>$0.00</td>
<td>$1,820.00</td>
</tr>
<tr>
<td>Alt. E-2 (Cold Room 141)</td>
<td>($350.00)</td>
<td>$0.00</td>
<td>$230.00</td>
<td>$0.00</td>
<td>$2,350.00</td>
</tr>
<tr>
<td>Alt. E-3 (Pne Hoods A)</td>
<td>$2,500.00</td>
<td>$520.00</td>
<td>$1,286.00</td>
<td>$100.00</td>
<td>$5,650.00</td>
</tr>
<tr>
<td>Alt. E-4 (Pne Hoods B)</td>
<td>$20,000.00</td>
<td>$2,500.00</td>
<td>$11,031.00</td>
<td>$500.00</td>
<td>$13,300.00</td>
</tr>
</tbody>
</table>

**Total Electric Contract**

$1,776,325.00  $1,249,620.00  $1,371,327.00  $1,423,600.00  $1,998,620.00

(Includes all Alternates)

### Finishes Contract

<table>
<thead>
<tr>
<th>Bid Type</th>
<th>Estimate</th>
<th>Cargile</th>
<th>Miles</th>
<th>Wise</th>
<th>Minority Allied/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,500,000.00</td>
<td>$1,360,000.00</td>
<td>$1,438,000.00</td>
<td>$1,443,000.00</td>
<td>$1,524,000.00</td>
</tr>
<tr>
<td>Alt. F-1 (Sheet Vinyl Floor)</td>
<td>$159,562.00</td>
<td>$130,000.00</td>
<td>$95,000.00</td>
<td>$118,000.00</td>
<td>$130,000.00</td>
</tr>
</tbody>
</table>

**Total Finishes Contract**

$1,659,562.00  $1,490,000.00  $1,533,000.00  $1,561,000.00  $1,654,000.00

(Includes all Alternates)
HAMILTON HALL RENOVATION
# POSTLE HALL ORAL BIOLOGY LABORATORY

## Tabulation of Bids

Bids received by The Ohio State University on March 16, 1989. Bids opened by Tamara Bell and tabulated by Martin Bricker. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>2d Ross</th>
<th>Farrell</th>
<th>Functional Development</th>
<th>Waller &amp; Lund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$146,000.00</td>
<td>$137,470.00</td>
<td>$132,200.00</td>
<td>$139,539.00</td>
<td>$152,000.00</td>
</tr>
<tr>
<td>Alt. G-1 (Metal Casework)</td>
<td>$20,000.00</td>
<td>$7,675.00</td>
<td>$13,300.00</td>
<td>$18,741.00</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>Alt. G-2 (New Ceiling)</td>
<td>$2,000.00</td>
<td>$990.00</td>
<td>$1,800.00</td>
<td>$1,025.00</td>
<td>$1,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$177,000.00</td>
<td>$146,045.00</td>
<td>$147,300.00</td>
<td>$159,305.00</td>
<td>$163,000.00</td>
</tr>
</tbody>
</table>

(Includes all Alternates)

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>2d Ross</th>
<th>Farrell</th>
<th>Functional Development</th>
<th>Waller &amp; Lund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$146,735.00</td>
<td>$143,328.00</td>
<td>$151,101.00</td>
<td>$139,865.00</td>
<td>$143,000.00</td>
</tr>
<tr>
<td>Alt. G-1 (Metal Casework)</td>
<td>$15,050.00</td>
<td>$20,688.00</td>
<td>$13,768.00</td>
<td>$18,425.00</td>
<td>$22,000.00</td>
</tr>
<tr>
<td>Alt. G-2 (New Ceiling)</td>
<td>$2,160.00</td>
<td>$607.00</td>
<td>$1,326.00</td>
<td>$9,865.00</td>
<td>$9,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$163,945.00</td>
<td>$164,623.00</td>
<td>$166,395.00</td>
<td>$168,155.00</td>
<td>$174,000.00</td>
</tr>
</tbody>
</table>

(Includes all Alternates)

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>2d Ross</th>
<th>Farrell</th>
<th>Functional Development</th>
<th>Waller &amp; Lund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$155,850.00</td>
<td>$161,000.00</td>
<td>$160,597.00</td>
<td>$153,135.00</td>
<td>$166,200.00</td>
</tr>
<tr>
<td>Alt. G-1 (Metal Casework)</td>
<td>$17,400.00</td>
<td>$12,679.00</td>
<td>$15,000.00</td>
<td>$23,387.00</td>
<td>$12,869.00</td>
</tr>
<tr>
<td>Alt. G-2 (New Ceiling)</td>
<td>$850.00</td>
<td>$1,350.00</td>
<td>$1,000.00</td>
<td>$650.00</td>
<td>$300.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$174,100.00</td>
<td>$175,029.00</td>
<td>$176,597.00</td>
<td>$177,172.00</td>
<td>$179,369.00</td>
</tr>
</tbody>
</table>

(Includes all Alternates)
**Plumbing Contract**

<table>
<thead>
<tr>
<th>Estimate</th>
<th>Marco</th>
<th>Westland</th>
<th>Radico</th>
<th>Farber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$15,000.00</td>
<td>$18,370.00</td>
<td>$19,800.00</td>
<td>$20,800.00</td>
</tr>
</tbody>
</table>

**HVAC Contract**

<table>
<thead>
<tr>
<th>Estimate</th>
<th>J. A. Guy</th>
<th>Farber</th>
<th>Central</th>
<th>Radico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$115,000.00</td>
<td>$122,300.00</td>
<td>$125,300.00</td>
<td>$144,600.00</td>
</tr>
</tbody>
</table>

**Electric Contract**

<table>
<thead>
<tr>
<th>Estimate</th>
<th>Power</th>
<th>National</th>
<th>Reco</th>
<th>Paver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$37,000.00</td>
<td>$36,701.00</td>
<td>$38,743.00</td>
<td>$40,806.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J. A. Guy</th>
<th>Power</th>
<th>National</th>
<th>Reco</th>
<th>Paver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$41,500.00</td>
<td>$44,400.00</td>
<td>$45,978.00</td>
<td>$46,800.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Power</th>
<th>States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$49,380.00</td>
</tr>
</tbody>
</table>
Bids received by The Ohio State University on March 1, 1989. Bids opened by Tamara Bell and tabulated by Steven Bentley. Awards indicated with an "***".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Mid American</th>
<th>First</th>
<th>Chem-Wood</th>
<th>Kramer &amp; Son</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$850,000.00</td>
<td>$629,770.00</td>
<td>$643,500.00</td>
<td>$671,031.00</td>
<td>$679,799.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nationwide</th>
<th>Harold</th>
<th>Richard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Becker</td>
<td>Smith</td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$775,292.00</td>
<td>$777,417.00</td>
</tr>
</tbody>
</table>
ST. JOHN ARENA
ROOF REPLACEMENT

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 4, 1989
1227
APPENDIX XXXVII

SALE OF REAL PROPERTY
760 BEAUTYVIEW COURT, COLUMBUS, OHIO

Adopted by the Board of Trustees May 4, 1989
(See page 1132)
Sale of Real Property
760 Beautyview Court
Columbus, Ohio

Subject Property
760 Beautyview Court

Office of Business and Administration
May 5, 1989
Purchase of Real Property
Cranston Center
Columbus, Ohio

The Ohio State University
Telecommunications Network Center

Eighth Avenue

North Scale: 1"=80'-0"

Parking Lot

Office Building

Lodge Building

Office of Business and Administration
May 5, 1989
APPENDIX XXXVIII

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989
(See page 1135)
Office of Business and Administration
May 5, 1989
APPENDIX L

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989
(See page 1136)
Columbus Southern Power Company Easement Renewal at The Ohio State University Golf Course

Office of Business and Administration
May 5, 1989
APPENDIX LI

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989
(See page 1136)
Columbus Southern Power Company Easement at the Piketon Agricultural Research and Extension Center, Pike County, Ohio

Office of Business and Administration
May 5, 1989
APPENDIX LII

RECOMMENDATIONS FOR MODIFICATION OF THE UNIVERSITY'S GROUP BENEFITS PROGRAM

Adopted by the Board of Trustees May 4, 1989
(See page 1143)
RECOMMENDATIONS FOR MODIFICATION OF THE
UNIVERSITY'S GROUP BENEFITS PROGRAM

RECOMMENDATION 1

FACULTY AND STAFF CONTRIBUTIONS SHOULD BE INSTITUTED
EFFECTIVE JULY 1, 1989 FOR THE MEDICAL COVERAGE UNDER BOTH
THE TRADITIONAL PLAN AND UNIVERSITY'S ALTERNATIVE HEALTH
PLAN. BEGINNING WITH FISCAL YEAR 1989-90 FULL-TIME FACULTY
AND STAFF MEMBERS SHOULD PAY 15% OF THE PREMIUM FOR
INDIVIDUAL COVERAGE AND 15% OF THE PREMIUM FOR DEPENDENT
COVERAGE. FOR FISCAL YEAR 1990-91 THE CONTRIBUTION
PERCENTAGE SHOULD BE INCREASED BY 3%, FOR A TOTAL
CONTRIBUTION OF 18% OF THE APPLICABLE PREMIUM FOR THAT YEAR.
FOR 1991-92, THE CONTRIBUTION PERCENTAGE SHOULD BE INCREASED
AN ADDITIONAL 3%, MAKING THE CONTRIBUTION 21% OF THE TOTAL
PREMIUM. AN ADDITIONAL 4% SHOULD BE ADDED FOR FISCAL YEAR
1992-93, BRINGING THE CONTRIBUTION TO 25% OF THE TOTAL
PREMIUM. IT IS FURTHER RECOMMENDED THAT THE DEPENDENT RATE
STRUCTURE BE DIVIDED INTO TWO COMPONENTS: A ONE DEPENDENT
CONTRIBUTION AMOUNT AND A TWO OR MORE DEPENDENTS
CONTRIBUTION AMOUNT. THIS WOULD RESULT IN THREE LEVELS OF
STAFF MEMBER CONTRIBUTIONS, STAFF MEMBER ONLY COVERAGE,
STAFF MEMBER PLUS ONE DEPENDENT, AND STAFF MEMBER PLUS TWO
OR MORE DEPENDENTS. THIS PROPOSED RATE STRUCTURE IS
CONSISTENT WITH THE CURRENT STRUCTURE FOR DENTAL AND VISION
COVERAGE.

Discussion

Faculty and staff member contributions are necessary to
reduce the University's financial burden of continuing the
medical coverage program. The use of a uniform percentage
contribution over all three proposed rate tiers is an
equitable approach and does not favor a particular group at
the University. Implementation of a three-tier rate
structure will allow for a more appropriate contribution
from staff members with one dependent compared to those with
a larger family. Of course, this additional rate tier has
the effect of increasing the cost for larger families by
moving away from the concept of shared risk. For a graphic
display of the proposed contribution amounts please refer to
Exhibit C.

RECOMMENDATION 2

EFFECTIVE JULY 1, 1989, STAFF MEMBER CONTRIBUTIONS SHOULD BE
INSTITUTED FOR PART-TIME EMPLOYMENT. THE UNIVERSITY'S SHARE
OF THE COST OF MEDICAL COVERAGE FOR A PART-TIME STAFF
MEMBER, WHETHER FOR SINGLE COVERAGE, STAFF MEMBER PLUS ONE DEPENDENT OR STAFF MEMBER PLUS TWO OR MORE DEPENDENTS, SHOULD BE IN PROPORTION TO THE STAFF MEMBER'S PERCENTAGE APPOINTMENT ACCORDING TO THE FOLLOWING CHART:

<table>
<thead>
<tr>
<th>PERCENTAGE APPOINTMENT</th>
<th>OSU PAYMENT</th>
<th>EMPLOYEE PAYMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>90%</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>80%</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td>70%</td>
<td>70%</td>
<td>30%</td>
</tr>
<tr>
<td>60%</td>
<td>60%</td>
<td>40%</td>
</tr>
<tr>
<td>50%</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>0 to 49%</td>
<td>NO COVERAGE</td>
<td>NO COVERAGE</td>
</tr>
</tbody>
</table>

PART-TIME STAFF MEMBER CONTRIBUTIONS SHOULD INCREASE IN SUBSEQUENT YEARS ON THE SAME BASIS AS CONTRIBUTIONS FOR FULL-TIME STAFF MEMBERS, BUT IN PROPORTION TO THEIR PERCENTAGE APPOINTMENT.

Discussion

Section 89 Discrimination Testing provisions must be taken into account when determining contributions for part-time staff members. Considering the current requirements of Section 89, it is recommended that the University’s contribution for part-time staff members not reduce to less than 50% of the University’s cost of full-time employees’ coverage. It should be noted, however, that bills have been introduced to simplify or repeal Section 89.

RECOMMENDATION 3

INCREASE THE DEDUCTIBLE FOR THE TRADITIONAL PLAN AND THE UAHP OUT-OF-NETWORK SERVICES FROM $100.00 TO $150.00. EFFECTIVE DATE: JULY 1, 1989.

Discussion

The deductible in both the traditional plan and UAHP (out-of-network) has not been adjusted to reflect medical cost increases in recent years. A $50 increase in the deductible for both plans would be appropriate and would maintain the differential between the traditional plan and UAHP.

RECOMMENDATION 4

ESTABLISH A CO-PAYMENT OF 20% OF THE CHARGE PER PRESCRIPTION FOR BRAND NAME DRUGS AND 10% OF THE CHARGE PER PRESCRIPTION FOR GENERIC DRUGS PROVIDED BY UAHP IN-NETWORK PHARMACIES.
IN ADDITION, IN ORDER TO MAINTAIN THE INCENTIVE TO USE IN-NETWORK PROVIDERS, IT IS RECOMMENDED THAT PRESCRIPTION DRUGS OBTAINED FROM OUT-OF-NETWORK PHARMACIES BE SUBJECT TO THE $150.00 DEDUCTIBLE PER PERSON. EFFECTIVE DATE: JULY 1, 1989.

Discussion

The average prescription costs between $20 and $25. Therefore, the average 20% co-pay would amount to $4 to $5, and should serve as an incentive to hold down the utilization of prescription drugs. For non-participating pharmacies under UAHP, 80% coverage should be provided for brand name drugs after the deductible with 90% coverage for generic drugs after the deductible. In addition, subjecting out-of-network drugs to a $150.00 deductible is consistent with the traditional plan deductible.

RECOMMENDATION 5

INCREASE THE CO-PAYMENT FOR UAHP OFFICE VISITS FROM $5 to $10. EFFECTIVE DATE: JULY 1, 1989.

Discussion

This recommendation is consistent with the Benefits Evaluation Committee suggestions and the rationale set forth in that report.

RECOMMENDATION 6

ESTABLISH A SALARY REDUCTION ARRANGEMENT TO PERMIT EMPLOYEES TO PAY THEIR CONTRIBUTIONS TO THE MEDICAL PLAN WITH PRE-TAX DOLLARS. THIS PROGRAM WOULD ALSO APPLY TO EXISTING CONTRIBUTIONS TO THE DENTAL AND VISION CARE PLANS. ESTABLISH A FLEXIBLE SPENDING ACCOUNT EFFECTIVE JANUARY 1, 1990, ENABLING STAFF MEMBERS TO PAY FOR MEDICAL EXPENSES, INCLUDING DENTAL AND VISION EXPENSES NOT COVERED BY THE GROUP PROGRAMS WITH PRE-TAX DOLLARS. EFFECTIVE DATE: JANUARY 1, 1990.

Discussion

A formal flexible spending account need not be established to permit employees to pay their contributions with pre-tax dollars. A simple salary reduction agreement would accomplish this purpose. A flexible spending account, however, would be necessary for staff members to use pre-tax dollars to cover deductibles, co-insurance, and medical
supplies and services not covered by the medical program as well as dental and vision care supplies and services not covered by those plans. Dependent care expenses could be paid with pre-tax dollars through a dependent care account.

Staff member contributions to a flexible spending account would be subject to a "use it or lose it" provision as set forth under Section 125 regulations. That is, monies not used by the close of the plan year would be forfeited.

A flexible spending account funded solely by staff member contributions will probably not pass the Section 89 discrimination tests and the contributions made by highly compensated staff will probably be taxable. This would eliminate any tax advantage to the highly compensated staff members, but would still allow a significant tax advantage for non-highly compensated staff members.

Under a flexible spending account plan the University could be subject to adverse cash flow and additional plan costs due to the recent Section 125 regulations that require a substantial risk of loss be assumed by the plan sponsor. This means that the maximum amount of coverage must be available to a participant at all times during the plan year. For example, a staff member who elects to reduce salary by $100 per month must have the $1,200 annual reimbursement available on the first day of the plan year. Therefore, a staff member could file a claim for $1,200 at the beginning of the plan year before the $1,200 accumulated in the employee’s flexible spending account. The University would be required to fund the additional monies. If the staff member left the University before the end of the plan year, it appears that the University could not require the staff member to pay the excess amount of the claim funded by the University over the amount in the staff member’s account.

The treatment of participant account forfeitures has also been changed by the regulations. Plan sponsors may no longer capture forfeitures in excess of administrative costs, rather such forfeitures must be allocated to participants.

Each individual participant election under a flexible spending account plan is a separate plan for the purposes of Section 89 nondiscrimination testing. Therefore, the complexity of the nondiscrimination testing is increased and a likelihood of the plan receiving approval is decreased. A detailed description of flexible spending accounts can be found in the attached report to the University by Mercer Meidinger Hansen (Exhibit D). The report details the provisions of a dependent care expense account as well as a medical expense account. In addition, the report takes into
consideration the impact of the recent Section 89 regulations.

Due to the complexities of the Flexible Spending Account concept and the risk of forfeiture of staff member money, an effective, well planned staff member communication program is imperative. A series of questions and answers which could form part of the communications effort is contained in the Flexible Spending Account report.

RECOMMENDATION 7

PROVIDE A $25 MONTHLY CREDIT TO THE FLEXIBLE SPENDING ACCOUNT OF STAFF MEMBERS WHO WAIVE THEIR INDIVIDUAL MEDICAL COVERAGE BECAUSE THEY HAVE ALTERNATIVE COVERAGE.

Discussion

This recommendation should only be implemented if the University determines it is economically feasible to grant a credit. Requiring staff member contributions may provide sufficient incentive for staff members to drop coverage without the added incentive of the $25 credit.

RECOMMENDATION 8

AS AN ADDITIONAL OPTION, THE UNIVERSITY SHOULD CONSIDER A LOW COST MEDICAL PLAN. THE PLAN COULD HAVE A $300 PER PERSON DEDUCTIBLE WITH A $900 FAMILY DEDUCTIBLE. THE CO-INSURANCE LIMIT (MAXIMUM OUT-OF-POCKET EXPENSE TO THE STAFF MEMBER) COULD BE $1,500 PER INDIVIDUAL AND $3,000 FOR THE FAMILY. EIGHTY PERCENT COVERAGE COULD BE PROVIDED FOR ALL MEDICAL SERVICES AFTER THE CALENDAR YEAR DEDUCTIBLE IS SATISFIED. STAFF MEMBER CONTRIBUTIONS WOULD BE BASED ON THE PREMIUM REQUIRED TO FUND THE PLAN, BUT IN ANY CASE WOULD BE SIGNIFICANTLY LESS THAN THE CONTRIBUTION REQUIRED FOR THE TRADITIONAL PLAN OR UAHP. EFFECTIVE DATE: JANUARY 1, 1990.

Discussion

The additional low cost medical plan option would enable staff members to choose the benefit program most appropriate to their situation. This would also move the University's program toward a cafeteria benefits approach. However, additional plan options would complicate Section 89 compliance and could result in additional cost to the highly-paid individuals through tax consequences of failing the Section 89 non-discrimination tests. Further, the low cost plan could attract low risk individuals, causing adverse selection and usage of the UAHP program. The low
cost option also makes it more difficult to estimate the savings anticipated from the recommended changes in plan design for UAHP, since it is difficult to anticipate the magnitude of the enrollment in the low cost option.

RECOMMENDATION 9

THE UNIVERSITY SHOULD STUDY THE FEASIBILITY OF RESTRUCTURING THE ADMINISTRATION OF THE VARIOUS HEALTH PLANS.

Discussion
The traditional plan benefits could be cut back to essentially the same level as the out-of-network benefits currently provided under UAHP. Patients would obtain a higher level of benefits by choosing UAHP providers at the time care is provided.

This single plan approach could be offered to the regional campuses. Where economically feasible, networks could be established incorporating hospitals and physicians in the regional campus locations. Staff members would also have access to the facilities in Columbus for non-emergency care. A special emergency benefit could be established for the regional campuses with the provision that a faculty or staff member must live over a certain number of miles from the OSU facilities in Columbus to be eligible for the benefit. Faculty and staff could choose their providers, whether participating or non-participating, at the time care is needed rather than making the election at the beginning of the plan year. A special prescription drug program could also be established for the branch campuses using participating pharmacies and providing the same level of benefits as provided by the UAHP pharmacy. The co-insurance could be 10% of the charge for a generic drug and 20% of the charge for a brand name drug to encourage the use of lower cost generics. The flexible spending account arrangement could also be offered to faculty and staff at the branch campuses on the same basis as provided for those staff members in Columbus.

With one plan, a single claim administrator might be selected through the competitive bid process to replace the current three claim administrators, (which may result in lower administrative costs) more uniform claim reports and simplified management. If a low option plan was also offered, it could also be handled by the same, single claim administrator. The Office of Personnel Services is currently reviewing several suggestions which might facilitate such an arrangement.
RECOMMENDATION 10

LONG-TERM CARE INSURANCE AT GROUP RATES SHOULD BE MADE AVAILABLE AT STAFF MEMBER COST EFFECTIVE JANUARY 1, 1990. THE SPECIFICS AS TO PLAN PROVISIONS AND COST COULD BE DETERMINED ON THE BASIS OF BIDDERS' RESPONSES TO SPECIFICATIONS.

Discussion

The popularity of long-term care insurance is increasing. A number of insurance carriers now offer such programs. Faculty and staff are interested in long-term care insurance as evidenced by the various committee reports. Competitive bidding of group long-term care insurance would help assure the most economic rates for the most desirable plan provisions and benefits.

RECOMMENDATION 11


Discussion

Co-payment could effect utilization in a positive way. However, rather than flat co-pays (such as $5 per test or $10 per x-ray) a more effective approach would be to have the provider collect 20% of the cost from the patient. The patient would then become aware of the actual cost of the service. Patients would be encouraged to reduce utilization and providers would be encouraged to hold down costs. As recommended earlier, this approach should also apply to office visit co-payments.

(Please refer to Exhibit "A" for a projection of the estimated annual cost savings realized from various recommendations for fiscal years 1989-90, 1990-91, and 1991-92.)
(See Exhibit B for details of the plan design.)

RECOMMENDATION 12

EFFECTIVE JULY 1, 1989, THE BENEFITS FOR BOTH IN-PATIENT AND OUT-PATIENT MENTAL HEALTH COVERAGE SHOULD BE MODIFIED. THE CURRENT UAHP IN-NETWORK COVERAGE FOR IN-PATIENT MENTAL
HEALTH SERVICES INCLUDES FIRST DOLLAR PAYMENT FOR UP TO $550.00. THIS FIRST DOLLAR COVERAGE PROVISION SHOULD BE MODIFIED. THE RECOMMENDED CHANGE TO THIS BENEFIT WOULD PROVIDE 80% OF COVERED CHARGES WITH AN OUT-OF-POCKET MAXIMUM OF $750.00. THE LIFETIME MAXIMUM BENEFIT WOULD CONTINUE TO BE $100,000.00. IN-PATIENT OUT-OF-NETWORK COVERAGE SHOULD BE CHANGED FROM THE PRESENT 80% AFTER A $100.00 DEDUCTIBLE TO 70% AFTER A $150.00 DEDUCTIBLE. COVERAGE UNDER THE TRADITIONAL PLAN SHOULD BE CHANGED IN ACCORDANCE WITH THE UAHP OUT-OF-NETWORK COVERAGE. COVERAGE FOR OUT-PATIENT SERVICES SHOULD BE MODIFIED TO REFLECT AN ANNUAL MAXIMUM BENEFIT. IT IS PROPOSED THAT THE ANNUAL MAXIMUM BENEFIT FOR OUT-PATIENT SERVICES BE LIMITED TO $2000.00 AFTER A $150.00 DEDUCTIBLE. THE LIFETIME MAXIMUM WOULD CONTINUE TO BE $25,000.00. THERE IS NO MAXIMUM OUT-OF-POCKET LIMIT ASSOCIATED WITH OUT-PATIENT MENTAL HEALTH SERVICES.

Discussion

National statistics indicate that mental health coverage is a high cost item in most health insurance plans and therefore has traditionally had higher deductibles and greater co-insurance than other areas of coverage. The proposed changes should bring mental health coverage in line with other changes proposed in plan design.

RECOMMENDATION 13

RENAME THE UAHP PLAN "THE OHIO STATE UNIVERSITY FACULTY AND STAFF HEALTH PLAN".

Discussion

Since the University’s Alternative Health Plan is now the predominate health plan for University faculty and staff it has been suggested by several individuals and groups that the plan be renamed.
## PROJECTED COSTS RECOMMENDATION 1

### COST SHARING FOR FULL-TIME STAFF

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>83.82</td>
<td>117.80</td>
<td>131.94</td>
<td>147.77</td>
<td>165.50</td>
</tr>
<tr>
<td>TWO PERSON</td>
<td>167.64</td>
<td>235.60</td>
<td>263.87</td>
<td>295.54</td>
<td>331.00</td>
</tr>
<tr>
<td>FAMILY</td>
<td>262.10</td>
<td>368.36</td>
<td>412.56</td>
<td>462.07</td>
<td>517.52</td>
</tr>
<tr>
<td>COMPOSITE</td>
<td>185.00</td>
<td>260.00</td>
<td>291.20</td>
<td>326.14</td>
<td>365.28</td>
</tr>
</tbody>
</table>

### PROPOSED COST SHARING FOR FULL TIME STAFF

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>12.57</td>
<td>17.67</td>
<td>23.75</td>
<td>31.03</td>
<td>41.38</td>
</tr>
<tr>
<td>TWO PERSON</td>
<td>25.15</td>
<td>35.34</td>
<td>47.50</td>
<td>62.06</td>
<td>82.75</td>
</tr>
<tr>
<td>FAMILY</td>
<td>39.32</td>
<td>55.25</td>
<td>74.26</td>
<td>97.03</td>
<td>129.38</td>
</tr>
<tr>
<td>COMPOSITE</td>
<td>27.75</td>
<td>39.00</td>
<td>52.42</td>
<td>68.49</td>
<td>91.32</td>
</tr>
</tbody>
</table>

### ENROLLMENT FULL TIME STAFF

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>3480</td>
<td>3480</td>
<td>4062</td>
<td>4062</td>
<td>4062</td>
</tr>
<tr>
<td>TWO PERSON</td>
<td>2900</td>
<td>2900</td>
<td>3385</td>
<td>3385</td>
<td>3385</td>
</tr>
<tr>
<td>FAMILY</td>
<td>5218</td>
<td>5218</td>
<td>6094</td>
<td>6094</td>
<td>6094</td>
</tr>
<tr>
<td>TOTAL</td>
<td>11598</td>
<td>11598</td>
<td>13541</td>
<td>13541</td>
<td>13541</td>
</tr>
</tbody>
</table>

### VALUE OF COST SHARING FOR FULL TIME STAFF

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>525,048</td>
<td>737,899</td>
<td>1,157,596</td>
<td>1,512,592</td>
<td>2,016,789</td>
</tr>
<tr>
<td>TWO PERSON</td>
<td>875,081</td>
<td>1,229,832</td>
<td>1,929,327</td>
<td>2,520,987</td>
<td>3,361,316</td>
</tr>
<tr>
<td>FAMILY</td>
<td>2,461,748</td>
<td>3,459,784</td>
<td>5,430,586</td>
<td>7,095,966</td>
<td>9,461,287</td>
</tr>
<tr>
<td>TOTAL</td>
<td>3,961,877</td>
<td>5,427,516</td>
<td>8,517,508</td>
<td>11,129,544</td>
<td>14,839,392</td>
</tr>
</tbody>
</table>

---

1248
### The Ohio State University

#### Medical Claims Paid and Premium Income - Historical Summary

<table>
<thead>
<tr>
<th>YEAR</th>
<th>BEGINNING BALANCE</th>
<th>INCURRED</th>
<th>PREMIUM INCOME</th>
<th>INCURRED CLAIMS RESERVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1983-84</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1984-85</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1985-86</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1986-87</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1987-88</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988-89</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1989-90</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes:

1. **Actual Medical Claims Paid for Both the University Alternative Health Plan (UAHP) and the Traditional Health Plan (THP).** The UAHP began operations in November 1985.
2. **Actual Costs to Administer Both the UAHP and THP.** The UAHP began operations in November 1985.
3. **Claims Paid plus Actual Administrative Cost.**
4. **Actual Premiums Collected from University Fiscal Units: General Funds, Earnings, Restricted Accounts (such as Research Grants) and Special Groups.**
5. **Reserve Established to Fund Incurred but Unreported Medical Claims.**
6. **Estimated Claims Were Predicted Using a Curvilinear (Polynomial) Regression Model.** The model assumes no modifications in the medical programs.
7. **Assumes Same Premium as 1988-89.** This assumption is made for analytical purposes only. In actuality these premiums will increase.
## HEALTH PLAN BENEFIT COMPARISON

### University Alternative Health Plan

<table>
<thead>
<tr>
<th>Coverage</th>
<th>In Network</th>
<th>Out of Network</th>
<th>Traditional Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Visit</td>
<td>$10 per visit</td>
<td>80% after $150 deductible</td>
<td>80% after $150 deductible</td>
</tr>
<tr>
<td>Surgical Procedure</td>
<td>Paid in full</td>
<td>Schedule of payments (max = $1200), balance at 80% after $150 deductible</td>
<td>Schedule of payments (max = $1200), balance at 80% after $150 deductible</td>
</tr>
<tr>
<td>In-Hospital Physicians Care</td>
<td>Paid in full</td>
<td>First visit $30, next 3-$15, next 115-$12, balance at 80% after $150 deductible</td>
<td>First visit $30, next 3-$15, next 115-$12, balance at 80% after $150 deductible</td>
</tr>
<tr>
<td>In-Patient Hospital Charges</td>
<td>Paid in full</td>
<td>80% of semi-private rate, maximum co-pay = $1000</td>
<td>120 days paid in full, balance at 80% after $150 deductible</td>
</tr>
<tr>
<td>In-Patient Mental Health</td>
<td>80% $100,000 lifetime max</td>
<td>70% after $150 deductible $100,000 lifetime max</td>
<td>70% after $150 deductible $100,000 lifetime max</td>
</tr>
<tr>
<td>Out-Patient Mental Health</td>
<td>70% after $150 deductible to $2000 benefit per year max $25,000 lifetime max</td>
<td>50% after $150 deductible to $2000 benefit per year max $25,000 lifetime max</td>
<td>50% after $150 deductible to $2000 benefit per year max $25,000 lifetime max</td>
</tr>
<tr>
<td>Outpatient Lab and X-Ray</td>
<td>80%</td>
<td>80% after $150 deductible</td>
<td>80% after $150 deductible</td>
</tr>
<tr>
<td>Prescription Drugs</td>
<td>80% Brand Name 90% Generic after $150 deductible</td>
<td>80% Brand Name, 90% Generic after $150 deductible</td>
<td>80% after $150 deductible</td>
</tr>
<tr>
<td>Obstetrical/Maternity</td>
<td>Paid in full</td>
<td>Schedule of payments (max = $1200), balance at 80% after $150 deductible</td>
<td>Schedule of payments (max = $1200), balance at 80% after $150 deductible</td>
</tr>
<tr>
<td>Immunizations</td>
<td>Paid in full</td>
<td>Birth to 6 months - in full After 6 months - not covered</td>
<td>Birth to 6 months - in full After 6 months - not covered</td>
</tr>
<tr>
<td>Emergencies - Medical</td>
<td>Acute - in full other at 80%</td>
<td>Acute - paid in full, other at 80% after $150 deductible</td>
<td>Acute - paid in full, other at 80% after $150 deductible</td>
</tr>
<tr>
<td>Emergencies - Accident</td>
<td>Paid in full</td>
<td>Paid in full</td>
<td>Paid in full</td>
</tr>
<tr>
<td>Physical Therapy, Hospital Outpatient</td>
<td>Paid in full</td>
<td>80% after $150 deductible</td>
<td>60 visits in full, balance at 80% after $150 deductible</td>
</tr>
<tr>
<td>Physical Therapy Home/Doctor's Office</td>
<td>Paid in full</td>
<td>80% after $150 deductible</td>
<td>80% after $150 deductible</td>
</tr>
<tr>
<td>Occupational and Speech Therapy</td>
<td>Paid in full</td>
<td>Not covered</td>
<td>Not covered</td>
</tr>
<tr>
<td>Routine Gynecology Examinations</td>
<td>Paid in full</td>
<td>Not covered</td>
<td>Not covered</td>
</tr>
<tr>
<td>Physicals, including associated lab and X-rays</td>
<td>Schedule of lifetime physicals Adult physicals 80%</td>
<td>Birth to 6 months - 6 exams paid in full, after 6 months not covered</td>
<td>Birth to 6 months - 6 exams paid in full, after 6 months not covered</td>
</tr>
</tbody>
</table>

* Underlined items are changes
Page 1251 is blank
Page 1252 is blank
APPENDIX LIII

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

June 9, 1989
Commencement Speaker

Elizabeth Hanford Dole
Doctor of Laws

Elizabeth Dole became a member of President Bush's Cabinet when she was sworn in as the 20th secretary of labor in January 1989. In this position, she serves as the President's chief adviser on labor issues and as a key economic policy adviser. She guides a federal agency with a budget of more than $31 billion and nearly 19,000 employees.

Dole's responsibilities include dealing with issues surrounding health and safety, wages, and employment rights of working people. She also oversees job training, unemployment insurance, workers' compensation programs, and a variety of other activities.

She was secretary of transportation from 1983 to 1987, and prior to that, served as a member of the Federal Trade Commission. Her public service has also included presidential appointments as executive director of the President's committee on consumer interests and as deputy special assistant to the President for consumer affairs.

Dole graduated with distinction in political science from Duke University, where she was president of the student government and elected to Phi Beta Kappa. She received her law degree from Harvard Law School and a master's degree in education and government from Harvard University.

Currently she is serving as honorary chair of the Board of Overseers at Duke Comprehensive Cancer Center and is a member of the Visiting Committee of Harvard University's John F. Kennedy School of Government. She recently received the Humanitarian Award from the National Commission Against Drunk Driving.

We welcome her to Ohio State and are honored that she has agreed to speak at today's ceremony.
Recipients of Honors

Julian B. Rotter
Doctor of Science

The theories, insights, and research of Julian Rotter changed the course of modern psychology. In 1955, he contributed an important and comprehensive theory of social learning to his field—one that went against the tide of the time by emphasizing thought processes rather than simply overt behavior. As a result of his work, social learning has become the major orientation of contemporary psychology.

He retired in 1987 from the University of Connecticut, where he served as director of the Clinical Psychology Training Program from 1963 to 1986, and still teaches as a professor emeritus. From 1946 to 1963, he was a faculty member at Ohio State and served as director of the Psychological Clinic for nine years. Under his guidance, Ohio State’s Department of Psychology rose in stature to one of the most prestigious departments of its kind in the world.

Rotter earned his A.B. degree in chemistry from Brooklyn College and his M.A. and Ph.D. degrees in psychology from the State University of Iowa and Indiana University, respectively.

His 1954 book, Social Learning and Clinical Psychology, has become a classic in the field and has had a pervasive influence on both the science and practice of psychology. He has been recognized for his outstanding contributions by receiving the American Psychological Association Award for Distinguished Contributions to the Science and Profession of Clinical Psychology.

As a teacher, Rotter’s success is unparalleled: more than 100 students have completed doctoral degrees under his direction, and an unusually high percentage of them have gone on to prominent positions in teaching, research, and academic administration throughout the country. His former students have helped to shape much of the personality literature that exists today. He has set the standard for students, as well as for his colleagues, and Ohio State is proud to recognize him for his lifetime of accomplishment.
Recipients of Honors

Robert E. Georges
Distinguished Service Award

Robert E. Georges is an associate dean emeritus in the College of Business, where he served for 22 years before retiring in 1987. He earned a B.S. in business administration from Ohio State in 1956 and an M.B.A. from George Washington University in 1965. During his tenure with Ohio State, Georges implemented many programs that enhanced accounting and business education; he was especially committed to creating opportunities for minority students. Among his most significant contributions was the New Careers Program (1969-1976), which sought to prepare minority students for management careers.

In 1975, Georges was instrumental in establishing the Minority Assistance Program. This program continues to serve students today, and offers them financial assistance, special counseling, intern experience, and other benefits.

His influence has enriched the educational experience for countless undergraduates throughout the last two decades. Georges has been a vigorous proponent of a broad-based curriculum for business students. He taught management science, human resources, and an honors class, "The History of Management Thought." He developed the honors class to explore the impact of business and economics on society—giving students a sense of ethics that complements their business education.

In addition to his teaching and administrative activities, Georges served on numerous committees including the University Senate, the Ohio Faculty Senate, and the Ohio Board of Regents Articulation Task Force and has been active in several professional organizations. He received the University's Wright Award in 1977 for leadership in student advising and, in 1984, the University Distinguished Affirmative Action Award. Ohio State is proud to add a Distinguished Service Award to his honors and thanks him for his years of dedication to the University.

Frederick G. Ruffner, Jr.
Distinguished Service Award

The $350 million Ohio State University Campaign—the largest ever conducted by a public university—requires the dedication of hundreds of volunteers. Fred Ruffner is among the most devoted of those volunteers; he has given unstintingly of his time and resources and has been an inspiration to other supporters of Ohio State.

A 1950 business graduate, Ruffner served from 1985 to 1988 as national chair of the University's five-year campaign. His involvement with Ohio State has spanned three decades—over the years he has spent countless hours meeting with committees, working with prospective donors, recruiting other volunteers, and promoting the University. His generous gift to the campaign further illustrates his concern for Ohio State: instead of establishing a chair or program in his name, Ruffner elected to give money to a flexible, general fund for emergencies and newly emerging needs. He is a member of The Presidents Council and the Alumni Association and serves on The Ohio State University Foundation board of directors, as well as the National Campaign Steering Committee.

Ruffner is president of Omnigraphics Inc. of Detroit, a publisher of educational books, journals, and video-tapes. He and his wife, Mary, founded the Gale Research Company, which creates and publishes reference books, in 1954 and sold it in 1985. Ruffner received the tenth annual Curtis Benjamin Award in 1985 from the Association of American Publishers, Inc. for setting new standards for information publishing.

An active advocate of libraries, he is a member of Friends of the Libraries groups at Ohio State and in both Detroit and Fort Lauderdale and served as president of Friends of the Libraries U.S.A. He was recently honored by the American Library Association for his corporate support and volunteer leadership. We commend him for his decades of service and proudly present him with the Distinguished Service Award as an expression of the University's appreciation.
The Graduate School
Dean: Roy A. Koenigsknecht

Doctor of Philosophy

Amir M. Abduljalil, Iraq; B.S., M.S. (Baghdad University); Physics
Dr. H. Hausman

Ayman Soliman Aqib, Egypt; B.S., M.S. (Ain Shams University); Civil Engineering
Dr. Keith W. Bedford

Engin Umit Akkaya, Istanbul, Turkey; B.S.C. (Middle East Technical University); M.S.; Chemistry
Dr. Anthony W. Czarnecki

Abdulhadi Saad Al-Abdulhadi, Dammam, Saudi Arabia; B.S. (King Saud University); M.A. (Ohio University); Education
Dr. Elaz J. Alberty

Amer A. S. Al-Shahriani, Khamsia
Mashha, Saudi Arabia; B.S. (College of Education at Abha); M.A.; Education
Dr. Robert Hauve

Yoosuf Ghaloom Ali, Kuwait; B.A. (Kuwait University); M.A.; Sociology
Dr. Katherine Meyer

Bill Theodore Amedes, Columbus, B.S., M.S. (University of Akron); Physiology
Dr. Jack Roll

Masoud Amin-Jawahery, Esfahan, Esfahan, Iran; B.S.E.E., M.S.; Electrical Engineering
Dr. D. E. Orrin

Maria Therese Annunci, Duluth, MN; B.A. (College of Saint Scholastica); M.A.; Music
Dr. Burdette L. Green

Melvin Damian Ayogu, Adaba Anambra, Nigeria; B.A. (California State University); A.C.I.B. (The Institute of Bankers); M.A.; Economics
Dr. E. J. Kane

Clara Mae Baker, Orleans, IN; B.A., M.A. (Ball State University); Education
Dr. Gail McCutcheon

George William Barbour, Columbus, B.S., M.S. (American University of Beirut); Poultry Science
Dr. J. D. Latshaw

Steven Louis Barnecki, Avon Lake; B.S.E.E., M.S.; Bio-Medical Engineering
Dr. Richard Campbell

Robert William Barone, Hilliard; B.A., M.A. (The University of Rhode Island); History
Dr. Clayton Roberts

Stephen Alexander Barwick, Greensend, New South Wales, Australia; B.S. (The University of Sydney); M.S. (The University of New England); Animal Science
Dr. W. R. Hurvitz

Ibrahim Abdulaziz Beayeyz, Saudi Arabia; B.A. (Riyadh University); M.A. (Michigan State University); Communication
Dr. Thomas McGain

Faiza Ali Bebbasi, Tripoli, Libya; B.S. (El-Fateh University); M.S.; Veterinary Physiology and Pharmacology
Dr. Robert Hamlin

Susan Jane Moyer Brookhart, Little Hocking, B.A. (Beaver College); M.A.R. (Lutheran Theological Seminary); Education
Dr. William E. Loadman

Robert James Burkholder, Greenville; B.S.E.E., M.S.; Electrical Engineering
Dr. Prabhakar Pathak

Neil Frederick Chamberlain, Hants, England; B.S. (King’s College); M.S.; Electrical Engineering
Dr. A. A. Kneuss

Shih-Huang Chen, Taiwan, R.O.C.; BACHELOR’S (National Taiwan University); M.B.A. (National Chengchi University); Statistics
Dr. Sue Leurgans

Huan Chang, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S.; Chemical Engineering
Dr. Harry Hershey

Younwha Chang, South Korea; B.S., M.S. (Seok Myung Women’s University); M.S. (Oklahoma State University); Home Economics
Dr. Lucy Sibley

Robert Shu-Keung Chau, Hong Kong; B.S.E.E., M.S.; Electrical Engineering
Dr. Steven Bubiy

Guang-ying Chen, Taipei, Taiwan, R.O.C.; B.S. (Fu-Jen Catholic University); M.S.; Computer and Information Science
Dr. Ten-Huong Lai

Inching Gilment Shen, Taipei, Taiwan, R.O.C.; B.S.E.E. (National Chiao Tung University); M.S.; Electrical Engineering
Dr. Jagade M. Jagadeesh

Yao Chia Chuang, Taipei, Taiwan, R.O.C.; B.S., M.S. (National Taiwan University); M.A.; Psychology
Dr. Jon A. Krosnick

Amy Elizabeth Clough, Columbus, B.S. (The University of Akron); Chemistry
Dr. Larry B. Anderson

Gilbert Wilson Collins, Livermore, CA; B.S. (The University of Cincinnati); M.S.; Physics
Dr. James R. Gant

Barbara R. Cornett, Worthington; B.S.N. (University of Maryland); M.S., Physical Education and Recreation
Dr. Mark K. Beurer

Margarita Concepcion Curras, Miami, FL; B.S. (Tulane University); M.S.; Physiology
Dr. Jack A. Bouland

Mark Stephen Davis, Lima; B.A., M.A., M.A.; Sociology
Dr. Simon Dinitz

Richard Edwin Doty, Columbus; B.S. (Muskingum College); M.S.; Psychology
Dr. Samuel Osipova

Vickie Lynn Douglas, DeGracaf; B.S.H.E., M.S., M.A.; Health, Physical Education and Recreation
Dr. R. C. Bates

Brook Foster Duerr, Columbus; B.A. (Potsdam College); Chemistry
Dr. Anthony W. Czarnecki

Martina Ebert, Worthington, M.A. (Cumberland-Card University); English
Dr. Julian Markels

Elaine Orstvensvik Edgar, Lorain; B.A. (Bowling Green State University); M.S.; Home Economics
Dr. Shirley O’Bryant

Robert James England, Marquette, MI; B.M. (Capitol University); M.A.; Music
Dr. James E. Major

Eric Falls, Huntsville, AL; B.S., M.S. (Alabama Agriculture and Mechanical University); Agricultural Education
Dr. J. David McCracken

Karen Rae Kyle Fellows, Westerville; B.A. (Walla Walla College); M.A.; Education
Dr. Nancy L. Zimmer

Li-Kung Ferng, Taipei, Taiwan, R.O.C.; B.S. (National Chiao Tung University); Economics
Dr. Robert Driskill

Daniel Stephen Fleck, Columbus; B.A. (Saint Meinrad College); M.A.; Education
Dr. Virginia Allen

Julie Ann Ganley, Dayton; B.A. (Wright State University); M.SSh (Troy State University); Education
Dr. James Wightl

Yufei Gao, Zhejiang, P.R.C; B.S. (Beijing University of Iron and Steel Technology); M.S.; Metallurgical Engineering
Dr. Paul G. Stevenson

John Thomas Gardner, University Heights; B.S., M.A., (East Carolina University); M.A.; Business Administration
Dr. Bernard J. LaLonde
Daryl Frederick Wehmer, New Bremen; B.S.B.A. (Bowling Green State University); Statistics

Master of Architecture

Mohammed Karimnami, Iran; B.S. Arch.; Architecture

Kevin Eliot Kenner, Plainwell, MI; B.S. Arch.; Architecture

Hector Antonio Santamarina, Guatemala City, Guatemala; Diploma (Universidad Francisco Marroquin); Architecture

Constantinos Antonios Terzidis, Columbus; Diploma (Aristotle University of Thessaloniki); Architecture

Steven Richard Turckes, Dayton; B.S. Arch.; Architecture

Chien-Jen Wang, Kaohsiung, Taiwan; R.O.C.; B.S. (National Cheng Kung University); Architecture

Bryan Evan Westgate, Columbus; B.S. Arch.; Architecture

Paul Austin Wilson, Gambier; B.S. Arch.; Architecture

Master of Arts

Judith Imali Abala, Columbus; B.A. (Wilmington College); M.A.; English

William Hunter Ague, Girard; B.S.Ed.; Mathematics

Janet Kay Alford, Columbus; B.A. (Bennington College); Education

Jacqueline Alvarez, Columbus; B.A. (University of Notre Dame); Psychology

Yi-Ning An, Taipei, Taiwan; R.O.C.; B.S. (National Chiao Tung University); Health, Physical Education and Recreation

Julian Augusta Anderson, Columbus; B.A., M.A. (Duke University); English

Shirle Denise Andes, Kent; B.S.B.A. (Bowling Green State University); Education

Carlos Miguel Andres Gil, Spain; Bachelor's (Universidad Autonoma); Romance Languages and Literatures

Julianne Antico, Pittsburgh, PA; B.A. (Wittenberg University); East Asian Languages and Literatures

Todd Patrick Armstrong, Helena, MT; B.A. (The University of Oregon); Slavic and East European Languages and Literatures

Joseph Anthony Arndt, Lithopolis; B.A. (Mount Vernon Nazarene College); Education

Carole Walters Arnold, Dublin; B.Art.Ed.; Art Education

Sherri Lynne Bair, Belle Center; B.S.Ed.; Education

Heather Louise Baldwin, Williamsport; PA; B.A. (Shippensburg University); Education

Teresa Marie Bargetto, Soquel, CA; B.A. (Dominican College); Romance Languages and Literatures

Britt Ralph Barker, Columbus; B.A.; History

Linda Ann Barnickel, Broken Arrow, OK; B.A. (The University of Tulsa); English

James Clarence Bassett, Los Angeles, CA; B.A. (The University of California at Los Angeles); Psychology

Susan Marie Basta, Georgetown; B.S.Nurs., M.S.; Health, Physical Education and Recreation

Elizabeth Renee Belfus, Cumberland; B.A.; Education

Tara Lynn Bell, Princeton, New Jersey; B.A. (Miami University); Public Administration

Paul Michael Bellini, Columbus; B.S.; Education

Ashley Beazelle Benjamin, Lawrence, KS; B.S. (University of Kansas); Health, Physical Education and Recreation

Thomas McNider Benoit, Hinckley, OH; B.A. (Southern Illinois University); Industrial Design

Jean Howat Berry, Springfield; B.A. (Wittenberg University); Education

Linda D. Berry, Pickerington; B.S.Ed.; Education

Shigeru Beesho, Konosu-shi, Japan; B.A. (Daito-bunka University); Education

Blair Anna Bethel, Columbus; B.A. (Miami University); Health, Physical Education and Recreation

Annette Blade, Newark; B.S.Ed.; Education

Melanie Anne Borton, Columbus Station; B.S.Ed.; Romance Languages and Literatures

James Richard Boyd, Sunbury; B.A. (Wilmington College); Education

Theresa Erb Boyle, Columbus; B.S.Al.Hth.Prof.; Health, Physical Education and Recreation

Ulrich Braun, Hoi Frein, West Germany; Diploma (Fach. Für Gestaltung); Industrial Design

Stefanie Anita Bronson, Cincinnati; B.S. (Hampton University); Speech and Hearing Science

Annette Lynn Brown, Lima; B.S.Al.Hth.Prof.; Health, Physical Education and Recreation

Heidi K. Brown, Cohasset, MA; A.B. (Brown University); Education

Janet Solt Brown, Grove City; B.S.Ed.; Education

Susan Jo Brumm, Brewster; B.S.Ed. (Kent State University); Education

Belinda Sue Bryce, Rochester, NY; B.A. (Ithaca College); English

Michael James Bullock, Millersburg, PA; B.S. (The Pennsylvania State University); Health, Physical Education and Recreation

Ronald Eugene Butch, Columbus; B.S.Bus.Adm.; English

Florence Wandor Burianek, Columbus; B.S.; Health, Physical Education and Recreation

Martha Catherine Butcher, Brownsville, TX; B.Mus. (Corpus Christi State University); Music

Hiroko Yamashita Butler, Japan; B.A. (University of Southern Mississippi); East Asian Languages and Literatures

James Edward Buttefield, Gallion; B.S. (Heidelberg College); Education

Normand Caba, Columbus; B.A. (Youngstown State University); Public Administration

Matthew Joseph Caccilato, Bedford, NY; B.S. (Syracuse University); Health, Physical Education and Recreation

John David Calvert, Columbus; B.A. (The College of Wooster); English

Michele Faith Carron, Holley, NY; Health, Physical Education and Recreation

David Lee Carter, Mt. Vernon; B.A. (The University of Toledo); Education

Santa Casciani, Rochester, NY; B.A. (Saint John Fisher College); Romance Languages and Literatures

Sheila Marie Catalano, Wooster; B.A.; Speech and Hearing Science

Jean Chagnon, Detroit, MI; B.S. (Oakland University); M.A. (University of Michigan); Psychology

Seu-Fu Chang, Taichung, Taiwan, R.O.C.; B.A. (Fu-Jen Catholic University); Communication

Donald C. Chapman, Mt. Gilead; B.S. (Goshen College); Education

Lora Yan Chen, Beijing, P.R.C.; B.A. (Beijing Film Academy); Photography and Cinema

Mei-Hua Chen, Taipei, Taiwan, R.O.C.; Diploma (Fu-Jen Catholic University); Education

Shu-Hua Chen, Columbus; B.A. (National Taiwan University); Journalism
Sook-hee Cho, Seoul, South Korea; B.A., M.A. (Chung-Ang University); English
Joseph Thomas Chojnacki, Carol Stream, IL; B.A. (Cornell College); Psychology
Edward Lynn Clinker, Defiance; B.A. (Huntington College); M.A.; Health, Physical Education and Recreation
Christine Carol Cobb, Palatine, IL; B.S. (Illinois State University); Dance
Jennifer Ann Collins, Palos Heights, IL; B.A. (LeMoyne College); Anthropology

William F. Coughlin, Columbus; B.A. (LeMoyne College); Anthropology
Michael Gerard Crall, Albia, IA; B.S., D.D.S. (University of Iowa); Education
Elizabeth Stooke Cullinan, Columbus; B.S.Ed.; Education
Willie Dock Dade, Columbus; B.A.; Speech and Hearing Science
Denise Dalliner, Cincinnati; B.A. (Miami University); Education
John Daniel Dankovich II, Youngstown; B.S. (Youngstown State University); Health, Physical Education and Recreation
Duane Alan Davis, Reynoldsburg; B.A.; Static and East European Languages and Literatures
Oscar De Los Santos, Corpus Christi, TX; B.A. (Corpus Christi State University); English
Renee Louise Deuvall, Middleburg Heights; B.A., B.Mus. (Oberlin College); Static and East European Languages and Literatures
Robin Carol Deykes, Bloomington, IN; B.A. (Indiana University); Education
Mary Elizabeth Dibgy, Tiffin; B.S. (Ashland College); Speech and Hearing Science
Julie Suzanne Dilz, Cincinnati; B.G.S. (The University of Cincinnati); Health, Physical Education and Recreation
GeorgiAnn Diniaco, Steubenville; B.A. (Kent State University); Health, Physical Education and Recreation
Lisa Rose Dobe, Wickliffe; B.A. (Cleveland State University); Speech and Hearing Science
Jeffrey Mark Dobson, Litchfield; B.A. (Philadelphia College); Education
Kristina Louise Donachie, Boardman; B.A. (Youngstown State University); Romance Languages and Literatures

Raymond Martin Douglas, Dublin, Ireland; B.A. (University of Dublin); History
Brandy Suzanne Dowdle, Hammondspoint, NY; B.S.Ed. (State University of New York at Geneseo); Education
Jo Elin Netts Dubois, Columbus; B.A.; Education
Valsin Louis DuMontier II, Westerville; B.S. (Louisiana State University); Education
Nancy Elizabeth Dubetz, Ravenna; B.A. (Kent State University); Education
Jane Ellen Dudley, Pataskala; B.S.Ed.; Education
Sandra H. Dunaway, Columbus; B.S.Ed.; Health, Physical Education and Recreation
Robert Michael Dworak, Parma; B.A. (Case Western Reserve University); English
Melissa Anne Ehret, Dayton; B.A. (The College of Wooster); Classics
Chris Ann Falkenberg, Westerville; B.S.Ed.; Education
Sue Ellen Finneman, Wooster; B.A. (Blackburn University); Geography
Marianne McGuire Flahive, Delaware; B.S. (Ohio University); Education
Donna Jean Foster, Reynoldsburg; B.A. (Bowling Green State University); Education
Janice Rogers Fridline, Ashland; B.S.Ed. (Ashland College); Education
John Masao Fujii, Vancouver, WA; B.S. (Yale University); Art Education
Gretchen Ann Furlow, Worthington; B.A. (Capital University); M.A.; Education
Daniel Lee Furry, Columbus; B.A. (Wittenberg University); Health, Physical Education and Recreation
Eva Marie Gaber-Rase, Columbus; A.A.; Bachelor's (Ohio University); Education
Chetey Elioy Gallant, Columbus; B.F.A.; Art Education
Margarita Garcia-Casado, Santander, Spain; Maitrise (University of Paul III); Romance Languages and Literatures
Jerald Michael Gerber, Lakeside-Marblehead; B.S Nat.Res.; M.S.; Public Administration
Ann Jefferis Getz, Columbus; B.S. (Mary Washington College); Education
Maria Michael Giannuli, Greece; B.A. (Connecticut State University); Education
Yolanda L. Gonzalez, Canovanas, PR; B.A. (The University of Puerto Rico); Journalism

Clive Vincent Goodall, England; B.A. (Stirling University); Philosophy
Christine Marie Goodman, Wooster; B.A.; Speech and Hearing Science
Sheila Rae Gossett, Columbus; B.S.Ed.; Education
Hanna Betina Gotz, Brazil; B.A. (Federal University of Rio Grande Do Sul); Black Studies
Jody Lynne Graham, Columbus; B.A. (University of Western Ontario); Philosophy
Mary Ellen Grant, Columbus; B.S.Bus.Adm.; Business Administration
Douglas Allen Grauel, New Castle, PA; B.S. (Carnegie-Mellon University); Communication
Roy Lewis Grimes, Jr., Dublin; B.S.Ed. (Concord College); Health, Physical Education and Recreation
Bilge Gurul, Istanbul, Turkey; B.S.B.A. (Bosphorus University); Business Administration
Claudia Hamilton, Venezuela; B.S. (Andrews University); Speech and Hearing Science
Julia Rose Hamilton, Beavercreek; B.A.; Public Administration
Margaret Ellen Hanke, Hayward, CA; B.S. (University of California at Berkeley); Business Administration
Craig Gerard Harbauer, Oakbrook, IL; B.A. (Purdue University); Industrial Design
Charles Frederick Harle, Jr., Cleveland; B.A. (Otterbein College); Education
Brooksie Eugene Harrington, Columbus; B.A. (The University of North Carolina at Chapel Hill); M.A.; English
Richard Stephen Harte, Columbus; B.S.Bus.Adm.; Business Administration
Barbara Jean Hartwig, Brownstown, WI; B.S. (University of Wisconsin at La Crosse); Health, Physical Education and Recreation
Lisabeth Ellen Hawks, Bellevue, IA; B.A. (Clarke College); Education
Christine Marie Hefi, Bowmanville, PA; B.A. (Shippensburg University); Education
Vivian Lee Seiver Heinrich, Port Arthur, TX; B.S. (Lamar University); Education
Hsiaoen Hemstock, Taipei, Taiwan; R.O.C.C.; Bachelor's (National Chengchi University); Political Science
David F. Heringhaus, Columbus; B.B.A. (The University of Notre Dame); Education
Santra Ann Hill, Loveland; B.S.Bus.Adm.; Health, Physical Education and Recreation
Michael Regan Hitt, Dayton; B.A. (Otterbein College); English
Yun-Fan Ho, Taipei, Taiwan, R.O.C.; B.S. (University of Oregon); Journalism
Christopher Grant Hogarth, Vancouver, British Columbia, Canada; B.A. (The University of British Columbia); English
Susan Marie Holland, Westerville; B.S. (Auburn University); Education
RoLesia Ruth Holman, Ashatabula; B.S. (University of Maryland); Education
Mark William Holtzapple, Elda; B.A.; B.A. (Michigan State University); Public Administration
Sang-Ho Hwang, Song Hak-Dong, South Korea; B.A. (Ewha Woman’s University); Dance
Matthew Djun Ismail, Hiram; B.A. (Hiram College); History
Zia Zeller James, Columbus; B.A. (The University of California at Santa Cruz); Education
Sharolyn Barry Jansen, Newark; B.A.; Education
Ben C. Jay, Columbus; B.S.Bus.Admin.; Health, Physical Education and Recreation
Jing-I Jiau, Taiwan, R.O.C.; B.S.Ed. (National Taiwan Normal University); Education
Jill Ellen Johnston, Hilliard; B.A. (Angelo State University); Education
Robert Gordon Jones, Columbus; B.A. (Saint Olaf College); Psychology
Jae-Jin Ju, South Korea; B.A. (Kyung Hee University); Political Science
Robert Adam Katz, Union of South Africa; B.S., M.S. (University of Witwatersrand); Education
Kenton Douglas Keatts, Clarkston, WA; B.A. (Washington State University); Slavic and East European Languages and Literature
Canada Kristine Keck, Lubbock, TX; B.G.S. (Texas Technological University); Sociology
Bruno Richard Keiff, France; DESCFAF (E.S.C. Nantes); Business Administration
Kamala Kempadoo, Amsterdam, Netherlands; B.A., M.A. (University of Amsterdam); Black Studies
Stephen Julius Kerstes, Columbus; B.A. (University of Wisconsin at Madison); Classics
David Elliott Kidd, Columbus; B.A. (The University of Pennsylvania); English
Nancy L. Kienow, Dayton; B.S.N. (Miami University); M.S.; Health, Physical Education and Recreation
Jean Marie Kimball, Columbus; B.S. (Ohio University); Speech and Hearing Science
Linda Kay Kinney, Bucyrus; B.S.Ed.; Education
Frank Henry Kobe III, Columbus; B.S. (Miami University); Psychology
Shannon Dawn Krabehnul, Columbus; B.A.; English
Sharada Krishnamurthy, Madras, India; B.A. (Women’s Christian College); Romance Languages and Literature
Edwin Charles Kumferman, Ridgecrest, CA; B.A. (Brigham Young University); Slavic and East European Languages and Literature
Sally Louise Lampheir, Monroe; B.A. (Miami University); Education
Jeffrey Scott Lauby, Sprague, WA; B.A. (Washington University); Political Science
Gilbert Mitchell Lear, Vandalia; B.A.; Education
Yi-Tzo Lee, Taiwan, R.O.C.; Bachelor’s (Chinese Culture University); Education
Donald Scott Leggett, Columbus; B.S.Ed.; Mathematics
Fan Li, Shanghai; P.R.C.; B.A., M.A. (East China Normal University); Psychology
Ann E. Lighthiser, Pickerington; B.S.Med.Tech.; Education
Deborah Attridge Littrell, Cincinnati; B.A., M.S. (University of Illinois); Public Administration
Mikel P. Loftus, Columbus; B.A. (Southern Illinois University); East Asian Languages and Literature
Mary-Ellen Lowery, Columbus; B.A. (Miami University); Education
Marjorie Brandt Luce, Columbus; B.A. (University of Central Florida); Education
Traci Colleen Lunsford, Cuyahoga Falls; B.S.H.E.; Health, Physical Education and Recreation
Robert David Lurye, Columbus; B.F.A. (Philadelphia College of Art); Art Education
Usama Mahapaththanon, Bangkok, Thailand; B.A. (Chulalongkorn University); East Asian Languages and Literature
Dora Maliniak, Israel; B.A. (Ben-Gurion University); Journalism
Karen Marie Mallarnee, Carrollton; B.S.Ed.; Health, Physical Education and Recreation
Brian David Martin, Edinboro, PA; B.A. (Edinboro University); Sociology
Eric Adam Martin, Alliance; B.A. (Mount Union College); Romance Languages and Literature
Linda Reed Martin, Columbus; B.S. (Eastern Kentucky University); Education
Manuel Luis Martinez, San Antonio, TX; B.A. (Saint Mary’s University); English
Stephen Michael Martino, Dayton; B.S.Ind.Deg.; Art Education
Catherine Day Masters, Pickerington; B.S.Ed.; Education
Anita Mary Mathias, Bangalore, Karnataka, India; B.A. (Oxford University); English
Brenda Sue McChesney, Mt. Gilead; B.A. (Ohio Northern University); Education
Sylvie Menisier, France; DESCAFR (E.S.C. Nantes); Business Administration
Susan Diane Menke, Columbus; B.S.Agr.; Business Administration
Nancy A. Messerly, Lancaster; B.S. (Ohio University); Education
Kim Kenneth Metcalf, Columbus; B.S. (Ball State University); Education
Judith Marianne Michael, Toledo; B.A.; Education
Jean Ann Miller, Lakewood; B.A. (Western Michigan University); Speech and Hearing Science
L. Elaine Miller, Wheelersburg; B.A., M.A.; English
Ruth Nadine Miller, Russell; Point; B.A. (Ohio Northern University); Education
Young Chul Min, Seoul, South Korea; Bachelor’s (Korea University); Health, Physical Education and Recreation
Jill Carol Miner, Lafayette, IN; B.A. (Purdue University); Romance Languages and Literature
Sierlguigi Miraglia, Milano, Italy; B.A. (Universitá DI Milano); Philosophy
Deborah Lynn Moore, Pickerington; B.A.; Anthropology
Terry Lynn Moore, Youngstown; B.S.Soc.Wel.; English
Barbara Hamilton Morris, Columbus; B.S.Ed.; Education
Robert Lewis Mousbrager, Jackson; B.G.S. (Ohio University); Public Administration
Roxanne Denise Mountford, Canton; B.A. (Malone College); English
David Mitchell Mrzuke, Columbus; B.Mus.Ed. (University of Toledo); Music
Christine Lee Newsom, Mattydale, NY; B.A.; Education
Reiko Noguchi, Kitakyusha City, Japan; B.A. (Seinan Gakuin University); Anthropology
Ingyu O, Pusan, South Korea; B.A. (Roosevelt University); Political Science
Susan Elaine Odd, Tujunga, CA; B.A. (Bingham Young University); Slavic and East European Languages and Literatures
Frank John Olle III, Cleveland; B.A. (John Carroll University); Classics
Margaret Ann Paton Walsh, Richmond, Surrey, England; B.A. (Durham University); History
Maureen Criswell Patrick, Marion; B.S.Ed.; Education
Maria Christine Peden, Columbus; B.A.; Health, Physical Education and Recreation
Gregory David Peiper, Carlisle, PA; B.S.Ed. (Shippensburg University); Mathematics
Xin Peng, Wuhan, P.R.C.; B.A. (Wuhan University); M.A. (Beijing University); Philosophy
Keith Craig Pepperell, Chelmsford, England; M.Ed. (The University of Sussex); M.A. (The University of Western Ontario); Education
Emily Jane Perl, Tiffin; B.A. (Bowling Green State University); Education
Sue Plumly, Arlington; B.S. (Daemen College); Education
Henry Lee Robinson, Toledo; B.S. (Bowling Green State University); Education
Nikki Glennora Robinson, Worthington; B.A. (Michigan State University); Education
Michael Franz Roehrig, Cincinnati; B.A. (Xavier University); Political Science
Antoinette Cecilia Roesch, Columbus; B.S.Ed.; Health, Physical Education and Recreation
Kevin J. Rogers, Indianapolis, IN; B.A. (Purdue University), Political Science
Stacy Jo Rogers, Palmyra, NY; B.A. (State University of New York at Geneseo); Sociology
Mariano Rojas-Herrera, San Jose, Costa Rica; Bachillerato, Licenciatura (Universidad de Costa Rica); Economics
Rafael Rosado, Ponce, PR; B.F.A.; Photography and Cinema
Michael Luther Rowland, Dayton; B.A. (Wittenberg University); Music
Joseph Michael Rutter, Columbus; B.S.Ed.; Education
Ruth Marie Ryan, Hyannis, MA; B.A. (Oglethorpe University); Education
Christine Ann Sage, Worthington; B.S.Ed. (Southeast Missouri State University); Education
Nils David Samuels, Columbus; B.A. (Kenyon College); English
Kimberly Jean Sayers, Wooster; B.A. (The College of Wooster); Education
Steven Edward Schack, Melbourne, KY; B.A. (Northern Kentucky University); Education
Gary Scott Schickler, Cleveland Heights; B.S. (Bowling Green State University); Education
Patricia Anne Schreiber, Dublin; B.S.Ed.; Education
Joan Marie Schulze, Dayton; B.S.Ed.; Health, Physical Education and Recreation
Stacy Ann Schwarz, Lorain; B.A.Jour.; Health, Physical Education and Recreation
Sung-Hui Seo, Yongsan-Gu, South Korea; B.A. (Yonsei University); Health, Physical Education and Recreation
Robert Merrill Sheehan, Jr.; Powell; B.A. (Westminster College); Public Administration
Tina Marie Shepperd, Powell; B.A. (University of Washington); Education
Lee Hammond Sherman, Columbus; B.S.Nurs.; Education
Peter Gerard Shields, Glasgow, Scotland; B.A.; Communication
Hyeon-Joong Shin, South Korea; B.A.; M.A. (Hanyang University); Political Science
Carol Ann Shkolnik, Columbus; B.S.Ed.; Public Administration
Robert Arthur Short, Columbus; B.S. (Eastern Michigan University); Public Administration
Martha Caroline Sims, Columbus; B.A.; English
Lincoln Stephen Smith, Wellesley, MA; B.A. (Connecticut College); Journalism
Sharon Annette Smith, Columbus; SC; B.A. (Saint Augustine’s College); Public Administration
Walter Fred Smith II, London, KY; B.A. (The University of Kentucky); Slavic and East European Languages and Literatures
Donna Marie Snyder, Albany, NY; B.S.B.A. (State University of New York at Oswego); Education
Kathleen Teresa Sommer, Fredonia, NY; B.A. (State University of New York at Buffalo); English
Terry Kaye Spencer, Newport News, VA; B.A. (Marshall University); Health, Physical Education and Recreation
Deborah Lynn Sprang, Akron, NY; B.A. (Baldwin-Wallace College); Education
Chitra Sriman, Columbus; B.A. (M.S. University); Art Education
Eileen Sarah St. George, Cincinnati; B.S. (The University of Dayton); Education
Laura Ann Staley, Delaware; B.A. (Ohio Wesleyan University); Political Science
Sheldon Lewis Stanton, Cincinnati; B.A. (The University of Cincinnati); Political Science
David Keith Steele, Waverly; B.A. (Cumberland College); Public Administration
Jennifer Paula Steube, Canal Winchester; B.S.Ed.; Education
Linda Kay Stewart, Wooster; B.S.Soc.Wel.; Education
Karen Lee Strong, Spokane, WA; B.S.Bus.Adm.; Education
Fang-I Su, Taiwan, R.O.C.; B.A. (National Taiwan University); History of Art
Laurel Ratcliff Talabere, Columbus; B.S. (The University of Connecticut); M.S.; Health, Physical Education and Recreation
Georgia Vingling Teteris, Columbus; B.C.S. (University of Michigan); Journalism
Jacques Thebault, France; DISCAF (ES.C. Nantes); Business Administration
Kathleen Sue Thompson, Westerville; B.A.; Romance Languages and Literatures
Lisa Ann Trachsel, Columbus; B.S.N. (Kent State University); Health, Physical Education and Recreation
Lewis Mashburn Tracy, Ojai, CA; B.A. (The University of California at Berkeley); Slavic and East European Languages and Literatures
Deann Marie Trionfante, Newbury; B.S.Ed. (Bowling Green State University); Health, Physical Education and Recreation
Yu-Yun Tsan, Taiwan, Taiwan, R.O.C.; B.A. (Tunghai University); M.A. (Spalding College); Education
Jeffrey Allen Turner, Saginaw, MI; B.A. (Western Michigan University); Romance Languages and Literatures
Orlando C. Valle, San Juan, PR; B.S.; Health, Physical Education and Recreation
Renee Baker Vetter, Columbus; B.A. (University of California at Davis); Education
Kimberly Ann Vivalo, Youngstown; B.S.Ed.; Health, Physical Education and Recreation
Robert Thomas Voca, Cleveland; B.S.Nurs.; German
Eric N. Waldron, Thompson, CT; B.A. (Antioch College); Public Administration
Gary Robert Walker, Bellville; B.S.Ed. (Kent State University); Education
Matthew Arno Wallachlager, Columbus; B.S.Nat.Res.; Education
Bonnie S. Wasson, Columbus; B.S. (Vanderbilt University); Public Administration
George McCelland Waters, Grove City; B.S.Ed.; Education
Lisa Kay Watson, Mansfield; B.S.Ed.; Health, Physical Education and Recreation
Mary Margaret Weber, DeSoto, MO; B.S. (Central Methodist College); M.B.A. (Virginia Polytechnic Institute and State University); Business Administration
Katharine Elizabeth Wehe, Reynoldsburg; B.S.W. (Capital University); M.S.W.; Public Administration
Chih Chung Wei, Taipei, Taiwan, R.O.C.; B.A. (Fu-Jen University); Education
Elisabeth Weinauam, West Germany; B.A. (Capital University); Psychology
Kathie Jo Weinsaeger, Westerville; B.A.; Romance Languages and Literatures
Christine Wells-Hovater, Dayton; B.S.N. (Miami University); M.S.N. (Wright State University); Health, Physical Education and Recreation
Laura Suzanne Wenig, Marion; B.A. (Bluffton College); Mathematics
Juanita Westerfield, Manchester, KY; B.S.Ed. (Cumberland College); Public Administration
Tamil Dawn Wickham, Indianapolis, IN; B.A. (Indiana Wesleyan University); Mathematics
Suzanne Wightman, Columbus; B.S. (Ohio Dominican College); Education
Kenneth Emerson Williams, Everett, PA; B.A., B.A. (Shippensburg University); Linguistics
Catharine Helen Wilson, Columbus; B.A. (The University of Oregon); Slavic and East European Languages and Literatures
Christine Harriette Wilson, Portland, OR; B.A. (The University of Oregon); Slavic and East European Languages and Literatures
Elaine Ann Wehlgemuth, Columbus; B.A. (University of California at Los Angeles); Psychology
Daniel James Wellam, Columbus; B.A. (The University of Maryland); Journalism
Judy Ronan Woodburn, Columbus; B.S. (James Madison University); Psychology
Katherine Williams Wright, Caldwell; B.S.Ed., M.A.; Public Administration
Donna Louise Wyckoff, Columbus; B.A.; English
Richard Michael Anthony Yoke, Northfield Center; B.A. (Bowling Green State University); Education
Connie Sue Young, Orient; B.S. (Eastern Kentucky University); Education
Atsuko Yurugi, Japan; B.A. (Sophia University); East Asian Languages and Literatures
Sandra Lee Zemmer, Warren; B.F.A. (Ohio University); Dance
Guohe Zheng, Wuhua, Hebei, P.R.C.; B.A. (Institute of Hydraulic and Electric Engineering); Linguistics
Elizabeth Ann Zimmerman, Tallmadge; B.A.; German
Jill Marie Zimmerman, Columbus; B.M. (Capital University); Education

Master of Business Administration
Jay Paul Ackley, Zanesville; B.S. (Brigham Young University); Business Administration
John Edward Alexander, Marion; B.S.M.E. (Ohio Northern University); Business Administration
Margaret Rachel Anoon, Dublin; B.S. (Miami University); Business Administration
Larry Hugh Atenn, Jr., Houston, TX; B.S. (Texas A & M University); Business Administration
David Madison Archer, Ashland; B.S.Bus.Adm.; Business Administration
Neeraj Arora, New Delhi, India; B.E.E. (Delhi College of Engineering); Business Administration
Alton Buddy Auvil, Columbus; B.S.E.P., M.S.; Business Administration
Robert Jethro Baker, Columbus; B.S. (Franklin University); Business Administration
Daniel Kari Balakoski, Columbus; B.S.Bus.Adm.; Business Administration
Joseph Edwin Balmer III, Dayton; B.A. (Emory University); Business Administration
Brian Richard Barrett, Canfield; B.S.; Business Administration
Karen Lynn Basinger, Marion; B.S. (Bowling Green State University); M.S.; Business Administration
Paul Kiene Beckman, Ottawa; B.A. (Bluffton College); Business Administration
Kathleen Ann Bernard, Columbus; B.S.Bus.Adm.; Business Administration
Eric Rinaldo Bianchi, Chillicothe; B.S., M.S. (The University of Michigan); Business Administration
Larry Richard Border, Dublin; B.A. (Ohio University); J.D.; Business Administration
Victoria Spooner Bowman, Auburn, AL; B.S. (The University of Kentucky); M.S. (Auburn University); Business Administration
Leslie Kenneth Bravender, Columbus; B.S. (Ferris State College); Business Administration
Nathan Paul Brecher, Valparaiso, IN; B.S.A.A.E.; Business Administration
Mark Farrell Briggs, Columbus; B.A., M.S.; Business Administration
William Hedley Brownson, Columbus; B.S.Bus.Adm.; Business Administration

Ronald Allen Bruggeman, Dubuque, B.S. (The University of Illinois); Business Administration

Gregory Joseph Buzek, Cincinnati; B.S.; Business Administration

Douglas Charles Cahill, Columbus; B.A. (Franklin University); Business Administration

Su-Chen Suzanne Chang, Taipei, Taiwan, R.O.C.; B.A. (The National Taiwan University); Business Administration

Helen Wei Chen, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); Business Administration

Suyuan Cheng, Taiwan, R.O.C.; B.B.A. (Tung-hai University); Business Administration

Carey Michael Cheri, New Orleans, LA; B.S. (Xavier University); M.S. (Indiana University); Business Administration

Myung Yul Choi, Chung-eup, University; B.A. (Han-Kuk University of Foreign Studies); Business Administration

Edward H. Chun, Murrysville, PA; B.S.Ch.E.; Business Administration

Guo-Ying Chuang, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Business Administration

Anna Stookey Clancy, Brooklyn, NY; B.A. (Hamilton University); Business Administration

Cynthia Laszcz Cole, Euclid; B.A.; Business Administration

Jeffrey David Collins, Washington, MI; B.A. (Albion College); Business Administration

Keith Donald Connor, Newport, KY; B.A. (Ohio Wesleyan University); Business Administration

Kim Angelique Cooper, Baton Rouge, LA; B.S. (Southern University); Business Administration

Anthony Van Cosentino, Columbus; B.S. (Miami University); Business Administration

Robert Scott Cowden, Jr, Weirton, WV; B.S. (West Liberty State College); Business Administration

Kathleen Elizabeth Craney, Evansville, IN; B.S. (Indiana State University); Business Administration

Robert Andrew Crawford, Columbus; B.A. (Capital University); Business Administration

David Robert Creecy, Ashland, B.S.M.E.; Business Administration

Thomas Joseph Creek, Reynoldsburg; B.S.M.E.; Business Administration

Jennifer Judith Crites, Galantana; B.S.Bus.Adm.; Business Administration

Jeffrey Allen Curran, Worthington; B.S. (The University of Toledo); Business Administration

Barbara Elizabeth D'Angelo, Fremont; B.A. (Wittenberg University); Business Administration

Catherine Louise Davero, Toledo; B.S. (Miami University); Business Administration

Lawrence John De Brincat, Columbus; B.S. (The University of Detroit); J.D.; Business Administration

Catherine Marie DeGenova, Columbus; B.S.Nurs.; Business Administration

Randall Lee DeMao, Columbus; B.A. (Kentucky Wesleyan College); Business Administration

Pradeep D. Deolankar, Worthington; B.Tech (Indian Institute of Technology); M.S.; Business Administration

Nancy B. Donner, Upper Arlington; B.S.Bus.Adm.; Business Administration

Christopher Edward Donohue, Lancaster; B.S.Bus.Adm.; Business Administration

Todd Leroy Drew, Columbus; B.S.Bus.Adm.; Business Administration

Philip Alexander Dukas, Alexandria, VA; B.S. (Virginia Polytechnic Institute and State University); Business Administration

Kenth E. Eriksson, Sweden; Diploma (The University of Stockholm); B.S. (Royal Institute of Technology); Business Administration

Charles G. Ernst, Zanesville; B.A. (Otterbein College); M.S.; Business Administration

Dennis Leo Erpelding, Whittemore, IA; B.S. (Iowa State University); Business Administration

Thomas Brian Evans, Jackson; B.B.A. (Ohio University); Business Administration

John Robert Eve, Worthington; B.B.A. (University of Kentucky); Business Administration

Hasan Ali Ezzedine, Columbus; B.S. (The University of Oklahoma); M.S.; Business Administration

Bonnie Wechter Fade, Lancaster, NY; B.S. (State University of New York at Buffalo); Business Administration

William Kevin Fenton, Union City; B.S. (Ball State University); Business Administration

Price Daren Finley, Columbus; B.A. (Capital University); Business Administration

D.A. Clarke Finneran, Youngstown; B.S.B.A. (Youngstown State University); Business Administration

Marie Celeste Finney, Westerville, B.A. (Miami University); Business Administration

Andrew James Fischer, Columbus; B.S. (Purdue University); Business Administration

Wilbert Stuart Folds, Columbus; B.S.Bus.Adm.; Business Administration

Jerome Millard Frederick, Worthington; B.S. (Fayetteville State University); Business Administration

Robert Harry Friend, Youngstown; B.S. (Miami University); Business Administration

Dale Allen Frank, Columbus; B.S. (The University of Notre Dame); Business Administration

William Patrick Gallivan, London; B.S. (Northwestern University); Business Administration

Donald Fraser Gibson, Palmyra, PA; B.S. (Pennsylvania State University); Business Administration

Christopher Gifford, Cuyahoga Falls; B.A. (The University of Akron); Business Administration

Rita Romstadt Glesser, Columbus; B.S.Nurs.; Business Administration

Jeffrey Thurlow Gliidden, New Carlisle; B.S. (Cornell University); Business Administration

Erica Irene Gonzalez, Woodbridge, CT; B.S. (Ohio Northern University); Business Administration

Dianne Elaine Greathouse, Dublin; B.S. (Franklin University); Business Administration

Mary Jo Griesenauer, Grove City; B.S. (Miami University); Business Administration

Maria Elaine Grosser, Pickerington; B.S.Ch.E.; Business Administration

Terrence Robert Guay, Rouses Point, NY; B.S. (Clarkson University); Business Administration

Donald Mitchell Halpern, Mt. Laurel; B.S. (Indiana University); Business Administration

Way-Tyng Jerry Harn, Taipei, Taiwan, R.O.C.; B.B.A. (Fu Jen Catholic University); Business Administration

Bruce Alan Hartsough, Cincinnati; B.S.; M.S.; Business Administration

Sara Lynn Haynes, Worthington; B.S. (Miami University); Business Administration

Jeffrey Paul Hazell, Boston, MA; B.A. (Villanova University); Business Administration

Christopher Stephen Helmeci, Fenton, MI; B.S. (Miami University); Business Administration
Joseph E. Henry, Dublin; B.A. (Otterbein College); B.S.; Business Administration
Cheryl Lynn Hetrick, Zanesville; B.S. (Muskingum College); Business Administration
Charles Brian Hicks, Gaffney, SC; B.S.M.E. (University of South Carolina); Business Administration
Sandra Ann Higey, Howard; B.A. (Baldwin-Wallace College); Business Administration
Paul Ernest Hofer, Akron; A.A.S.; B.B.A. (Kent State University); Business Administration
Kristopher Lenel Howerton, Mansfield; B.A.; Business Administration
Johnny Ray Hoylman, Jr., Chillicothe; B.S.I.S.E.; Business Administration
Robert John Hrouda, Downers Grove, IL; B.S. (Northern Illinois University); Business Administration
Haoran Hu, Wuhan, Hubei, China; B.S., M.S. (HuaZhong University of Science and Technology); Ph.D. (Massachusetts Institute of Technology); Business Administration
John Kirk Hunley, Delaware; B.S.Bus.Adm.; Business Administration
Pamela S. Hutchins, Columbus; B.S. (Southern Illinois University at Carbondale); Business Administration
Tom Akuem Isagholi, Columbus; B.S. (Bethune Cookman College); Business Administration
Ryo Ishida, Horumizu, Iwamizawa, Japan; B.A. (Hokkaido University); Business Administration
Jonathan Applegate Jackson, Centerville; B.S.I.S.E.; Business Administration
Joseph Michael Jackson, Minneapolis, MN; B.S. (The University of Minnesota); Business Administration
Timothy Jay Jenkins, Findlay; B.S.E.E. (Ohio Northern University); Business Administration
Richard Lee Johnson, Sabina; B.S. (Wright State University); Business Administration
Laura Leigh Joly, Dayton; B.A. (Indiana University); Business Administration
Danny Edmond Jones, Columbus; B.S.Bus.Adm.; B.A.; Business Administration
Jerome John Joondeph, Jr., Akron; B.S. (Miami University); Business Administration
Jason F. Kalb, New Washington; A.A.; B.B.A. (Tiffin University); Business Administration
Kimio Katayanagi, Fijiiawashi, Kanagawa, Japan; B.A. (Keio University); Business Administration
William Geoghegan Keller, Shaker Heights; B.B.A. (North Texas State University); Business Administration
William Joseph Keller, Columbus; B.S. (Miami University); Business Administration
Scott G. King, Dublin; B.S. (Colorado School of Mines); Business Administration
Diane M. Klingenberger, Ada; B.S.B.A. (Ohio Northern University); Business Administration
Lynda Jean Knapp, Charlotte, NC; B.S. (The University of North Carolina at Chapel Hill); Business Administration
Michael Raymond Koval, Greensburg, PA; B.S. (Pennsylvania State University); Business Administration
Edward Eric Lasella, Farmington Hills, MI; B.S. (Michigan Technical University); Business Administration
Bryan Anthony Lawrence, Hilliard; B.B.A. (University of Notre Dame); Business Administration
Brian Jay Lee, Akron; B.S.Bus.Adm.; Business Administration
Wei Wei Lee, Singapore; B.S.Bus.Adm.; Business Administration
Carolyn Ann Leedy, Mansfield; B.S. (Valparaiso University); Business Administration
Douglas Joseph Lewan, Valparaiso, IN; B.S. (Indiana University); Business Administration
I-Chyuan Liu, Taiwan, Taiwan, ROC; B.S. (The National Taiwan University); Business Administration
Theodore Ryan Lorier, Columbus; B.S.C.E.; Business Administration
Konstantine Maggioros, Athens, Greece; B.A. (The Athens School of Economics); Business Administration
William Edwin Maginn, Santa Ana, CA; B.S.Bus.Adm.; Business Administration
Robert John Nathaniel Manosky, Worthington; B.S. (Manchester College); Business Administration
Susan M. Manrodt, Des Moines, IA; B.S.Bus.Adm.; Business Administration
Jennifer J. Martin, Zanesville; B.A.; Business Administration
Paul William Martin, Jr., Columbus; B.S. (United States Naval Academy); Business Administration
Elizabeth Martinez-Facheco, San Juan, PR; B.S.Bus.Adm.; Business Administration
Anna Matsukevich, Columbus; B.S. (Georgetown University); M.S. (George Washington University); Business Administration
Glenn Robert Maxwell, Sylvania; B.S.Ch.E.; Business Administration
Raymond Thomas Mayak, Monongahela, PA; B.S. (Bethany College); Business Administration
Charalabos Mazarakis, Athens, Greece; Bachelor's (Piraeus School); Business Administration
William Patrick McIlhargey, Springboro; B.B.A. (The University of Toledo); Business Administration
Matthew John McKeon, Westerville; Bachelor's (Colorado School of Mines); Business Administration
John T. Mclaughlin III, Columbus; B.S.Bus.Adm.; Business Administration
Philip Curtis McNeil, Beaver Creek; B.S. (Wright State University); Business Administration
Nancy Lynn Mead, Delaware; B.S.Bus.Adm.; Business Administration
Richard Charles Merritt, Findlay; B.A. (Malone College); Business Administration
Ronald Joseph Meyer, Minster; B.S.C.I.S.; Business Administration
Laura Gayle Miller, Akron; B.S. (Miami University); Business Administration
Susan Allison Miner, Dayton; B.S.Bus.Adm., I.D.; Business Administration
James Steven Moore, Salt Lake City, UT; B.S. (The University of Utah); Business Administration
Harris K. Mortensen, Renton, WA; B.S. (Brigham Young University); Business Administration
Carolynne Joy Mucharsky, Sydney, Australia; B.S.; Business Administration
H. Kenneth Mi, Hong Kong, B.S.; B.S. (Southern Illinois University); Business Administration
Joy Mukherjee, Calcutta, India; B.S. (Rutgers University); Business Administration
William Ronald Mullins, Jr., Dayton; B.S. (Purdue University); Business Administration
Abby Jo Nader, Warren; B.S.Bus.Adm.; Business Administration
Tina C. Narayan, Grove City; Master's (Wayne State University); Business Administration
Jerry Allen Nei, Jr., Columbus; B.S. (Miami University); Business Administration
Ronald Dale Nussbaum, Shreve; B.S. (The University of Akron); Business Administration

David Alan Outcalt, Columbus; B.A. (Ohio Wesleyan University); Business Administration

Scott Alan Painter, Willard; B.S.E.E. (Ohio Northern University); Business Administration

Robert George Paquette, Dublin; B.A. (State University of New York at Buffalo); M.A.; Business Administration

James Thomas Parker, Delaware; B.A. (Kenyon College); Business Administration

James Michael Peck, Dayton; B.S. (University of Dayton); Business Administration

Miriam W. Perry, Columbus; B.S. (Purdue University); Business Administration

Sharon Jean Phelps, Granville; B.S.Bus.Adm.; Business Administration

Brian Michael Philbin, Perrysburg; B.S.Agr.; Business Administration

Jeffrey Michael Prestel, Dayton; B.S. (Wright State University); Business Administration

Richard Paul Quaintance, Hilliard; B.S. (Youngstown State University); Business Administration

Vonda Kay Ramey, Morehead, KY; B.A. (Morehead State University); Business Administration

Timothy Harold Robison, Upper Arlington; B.S.Ch.E., B.S.C.I.S.; Business Administration

Robin A. Ronchetti, Dublin; B.S. (Miami University); Business Administration

Terri Lynn Ruoff, Grove City; B.S.B.A. (Miami University); Business Administration

Beth Ann Russell, West Salem; B.S.Bus.Adm.; Business Administration

Michael Roman Rywalski, Toledo; B.S. (The University of Toledo); Business Administration

Susan Lynn Salt, Columbus; B.S. (Miami University); Business Administration

Scott Howard Samuelson, Cincinnati; B.A. (The University of Cincinnati); Business Administration

George H. Schaefzer, Wickliffe; B.A. (Hiram College); Business Administration

Thomas Daniel Schaner, Reynoldsburg; B.S. (Bowling Green State University); Business Administration

Wendy Lynn Schneiter, Akron; B.A. (Tulane University); Business Administration

Sallie Anne Scoggin, Saginaw, MI; B.A. (Lake Erie College); M.S. (Ohio University); Business Administration

Matthew Alan Scott, Worthington; B.S.Bus.Adm.; Business Administration

Nathan Leslie Segall, Warren; B.S. (The University of Cincinnati); Business Administration

Richard William Sensenbrenner, Columbus; B.S.Bus.Adm.; Business Administration

Barry Louis Serpa, Worthington; B.S. (Bentley College); Business Administration

Eric John Setash, Vienna, VA; B.S. (George Mason University); Business Administration

Mark Matthew Shaw, New Holland; B.A. (Wilmington College); Business Administration

John Bolling Sheppard, Worthington; B.S. (United States Military Academy); Business Administration

Shwu-Fei Shieh, Taiwan, R.O.C.; B.A. (The National Taiwan University); Business Administration

Mark Allan Shireman, Akron, IN; B.S. (Purdue University); Business Administration

Cindy Ann Shisler, Columbus; B.A. (Capital University); Business Administration

Linda Kay Stillman, Columbus, B.S.I.S.E.; Business Administration

Robert Gerald Sines III, Cornland; Bachelor's (Youngstown State University); Business Administration

Stewart Alan Skomra, Lelbou, B.S.M.E.; Business Administration

Adrian Dixon Smith, Mt. Vernon; B.S. (The University of Manchester); Business Administration

Daniel Howard Smith, Kalamazoo, MI; B.S. (Butler University); Business Administration

David Kent Smith, Newport Beach, CA; B.S. (The University of California at Irvine); Business Administration

David Ray Smith, Columbus; B.S. (The University of Toledo); Business Administration

Patrick Allen Smith, Columbus; B.S.Bus.Adm.; Business Administration

Robert Wesley Smith, Rochester, NY; B.A. (Wittenburg University); Business Administration

Joseph William Stadnicar, Avon Lake; B.S. (John Carroll University); Business Administration

Theodosia Billie Streets, Ridgewood, NJ; B.A. (Oberlin College); Business Administration

Mark Alfred Sutter, Dublin; B.B.A. (Ohio University); Business Administration

Michael Stuart Swartz, Westerville; B.S.E.E.; Business Administration

Paul Lawrence Syklebeck, Columbus; B.S.Mng.Eng.; Business Administration

Takahiko Takeda, Tokyo, Japan; B.A. (Waseda University); Business Administration

Tracy Claire Thomas, Columbus; B.A. (University of Notre Dame); Business Administration

Dana Keith Thompson, Columbus; B.S.Ch.E., M.S.; Business Administration

David Lawrence Trautman, Columbus; A.B. (Duke University); Business Administration

Joan Young Trautman, Sylvania, B.A. (Duke University); Business Administration

Michael Carlton Troper, Englewood Cliffs, NJ; B.A. (Bucknell University); Business Administration

Farn-Pin Tseng, Taiwan, R.O.C.; B.A. (The National Chang Hsing University); Business Administration

Bruce Michael Tylock, Williamsville, NY; B.S.Ch.E.; Business Administration

Brett Jason Walrath, Ashatabula; B.S.; Business Administration

Charles David Warner, Westerville; B.S.; Business Administration

Daniel Vance Watkins, Columbus; B.S.Bus.Adm.; Business Administration

Peggy Ann Wauben, Delphos; B.S.Bus.Adm.; Business Administration

Hugh David White, Jr., Toledo; B.A. (Tulane University); Business Administration

Thomas Eugene Wilkins, Columbus; B.S.Bus.Adm.; Business Administration

Martha Anette Williams, Petersburg, VA; B.A. (Virginia State University); Business Administration

James Robert Wilson, Jr., Chillicothe; B.B.A. (Eastern Kentucky University); Business Administration

Kelly Day Wood, Columbus; B.S.Bus.Adm.; Business Administration

Lindsay Gail Woods, Rossford; B.A. (Alma College); Business Administration
Master of City and Regional Planning

Peter Anthony Battaglia, Miami Beach, FL; B.A. (State University of New York at Buffalo); City and Regional Planning

David Michael Betz, Columbus; B.A. (State University of New York at Buffalo); City and Regional Planning

Jean M. Carter-Ryan, Columbus; B.A. (Smith College); City and Regional Planning

Wylie Elizabeth Enyedy, Grafton; B.A. (Miami University); City and Regional Planning

Bonnie K. Gutfman, Columbus; B.A.; City and Regional Planning

Julia Rose Hamilton, Beavercreek; B.A. City and Regional Planning

Hyung Jin Kim, Seoul, South Korea; B.S. (Yonsei University); City and Regional Planning

Sau-Ha Lam, Columbus; B.A. (The National Taiwan University); City and Regional Planning

John M. Magill, Columbus; B.A. (The University of Notre Dame); City and Regional Planning

Ibrahim Khalil Maslmani, Zarqua, Jordan; B.S.Arch.; City and Regional Planning

Joseph Rossi, Poland; B.A. (Youngstown State University); City and Regional Planning

Art Siiswanto, Palembang S Sudirata, Indonesia; Diploma (Surabaya Institute of Technology); City and Regional Planning

Sheng-Tao Wang, Chung-Ho Taipei, Taiwan, R.O.C.; B.S. (National Cheng-Kung University); City and Regional Planning

Mary V. Wenning, Butler; B.S.Soc.Wel.; City and Regional Planning

Kevin Joseph Wheeler, Bucyrus; B.A. (Miami University); City and Regional Planning

Fatimah Yusoof, Muar, Johore, Malaysia; Diploma (Mara Institute of Technology); City and Regional Planning

Master of Fine Arts

Jacqueline Mary Cohen, Columbus; B.F.A. (University of Michigan); Art

Frances Woods Craig, Florence, AL; B.A. (Randolph-Macon Woman's College); Dance

Loretta Mary Di Bianca, Warren, NJ; B.A. (College of the Holy Cross); Dance

Shawn Bowman Hicks, Gaffney, SC; B.A. (Columbia College); Dance

Deborah Ann Jordan, Houston, TX; B.A. (University of Houston); Theatre

Edith Ann Lovercheck, Gering, NE; B.F.A. (Stephens College); Theatre

Thomas Kevin O'Connor, Detroit, MI; B.F.A. (Wayne State University); Theatre

Robert James Roznowski, Northumberland, PA; B.F.A. (Point Park College); Theatre

Deborah Lynn Shilliday, Columbus; B.A. (Ohio Wesleyan University); Theatre

James Virgil Shumate, Columbus; B.F.A. (Kent State University); Art

Jeffrey Morrison Smart, Beaver Falls, PA; B.A. (Baldwin-Wallace College); Theatre

Heather Sultz, St. Louis, MO; B.A. (Webster University); Dance

Amanda Winifred Thom, Edinburgh, Scotland; B.Ed. (Bedford College of Higher Education); Dance

Victoria Elizabeth Uris, Grandview, NY; B.F.A. (New York University); Dance

Master of Health Administration

Eugenia Louise Anderson, Bemus Point, NY; B.A. (Miami University); Hospital and Health Services Administration

Nandita Reeser Bhattacharjee, Columbus; A.B. (Bryn Mawr College); Hospital and Health Services Administration

Paul Andrew Casbergue, Columbus; B.S. (Michigan State University); Hospital and Health Services Administration

Amin Aziz Charania, Pakistan; M.B.B.S. (Dow Medical College); Hospital and Health Services Administration

Rosemary V. Chaudry, Marion; B.S.N. (Adelphi University); Hospital and Health Services Administration

Deborah Lee Curran, Aurora; B.S.A.H.H.Prof.; Hospital and Health Services Administration

Jeremy Stanford Evans, Bloomfield Hills, MI; B.A. (Miami University); Hospital and Health Services Administration

John James Fazio, Akron; B.S. (Gannon University); Hospital and Health Services Administration

Garry Lee Gause, Lexington; B.S. (Bowling Green State University); Hospital and Health Services Administration

Vera Zina Gotowoch, Delaware; B.S. (Saint John Fisher College); J.D.; Hospital and Health Services Administration

Troy Stewart Horrisberger, Walnut Creek, B.A. (Hiram College); Hospital and Health Services Administration

Thomas Allen Kleinhans, Clinton, B.S.; Hospital and Health Services Administration

Sean Alphonse Leavitt, Minneapolis, MN; B.S. (Saint John's University); Hospital and Health Services Administration

Lee-Yu Lin, Taipei, Taiwan, R.O.C.; B.S. (Chung Yuan University); M.S.; Hospital and Health Services Administration

Gregory F. Morsches, Toledo; B.S. (University of Cincinnati); Hospital and Health Services Administration

Brenda Lee Pfeiffer, Hilliard; B.S.Nurs.; Hospital and Health Services Administration

Donna Marie Schiavo, Milford, MA; B.A. (College of the Holy Cross); Hospital and Health Services Administration

Debra Lynn Snyder, Grove City; B.S.Bus.Adm.; Hospital and Health Services Administration

Julie Anne Strine, Columbus, B.A. (Miami University); Hospital and Health Services Administration

Nanette Felice Thaler, Columbus; B.A. (Earlham College); Hospital and Health Services Administration

Master of Labor and Human Resources

Sarah Rochelle Bradley, Columbus; B.A. (Capital University); Labor and Human Resources

Diane Marie Dierna, Columbus; B.S.Bus.Adm.; Labor and Human Resources

Suzanne Celina Drew, Columbus; B.S.; Labor and Human Resources

Joseph H. Eck, Akron; B.S. (University of Akron); Labor and Human Resources

Patricia Ann Ellefsen, Reynoldsburg; A.A.; B.S.; Labor and Human Resources

Lori Jae Epperson, Richwood; B.S.Agr.; Labor and Human Resources

David Howard Israel, Lakehurst, NJ; B.A. (State University of New York at Binghamton); Labor and Human Resources

Teresa Jane Jones, Columbus; B.S.H.E.; Labor and Human Resources

Valerie Ann Murchake, Columbus, B.S.Nurs., B.A.; Labor and Human Resources
Debra Herdman Pelley, Columbus; B.S.; M.A. (Duquesne University); Labor and Human Resources

Master of Landscape Architecture

Jeffrey Scott Markley, Brecksville; B.A. (Miami University); Landscape Architecture

Sukwon Park, Seoul, South Korea; B.A. (Kyung-Hee University); Landscape Architecture

Robert S. Ziekinski, Columbus; B.S. (Eastern Kentucky University); Landscape Architecture

Master of Music

Mark Andrew Baker, Grove City; B.Mus.: Music

Seonmi Koh-Noh, Seoul, South Korea; B.A. (Ewha Women's University); Music

James Monroe Mowre, Jr., Alvin, TX; B.Mus. (Hardin-Simmons University); Music

Sandra Lynn Perry, Bloomington, IL; B.M. (Illinois State University); Music

Thomus Kennedy Ryan, Sandusky; B.Mus. (Ohio Northern University); Music

Kent Curtis Weaver, Columbus; B.M. (Westminster Choir College); Music

Master of Public Administration

John Douglas Alge, Arlington; B.A. (Bowling Green State University); Public Administration

Rochelle Rene Athey, Newark; B.A., M.A. (Kent State University); Public Administration

Peter Anthony Battaglia, Miami Beach, FL; B.A. (State University of New York at Binghamton); Public Administration

Ordwell Perry Burr III, Warren; B.A. (Hiram College); Public Administration

Paula Lee Cogan, Brooklyn, NY; B.S. (Columbia University); Public Administration

Maria Theresa Coleman, Columbus; B.A. (Univercity of Cincinnati); Public Administration

Linwood Corbett, Jr., Richmond, VA; B.A. (Virginia Union University); Public Administration

Daryl Paul Henneny, Grove City; B.S. (Ohio University); Public Administration

Nina Moore Johnson, Chestertown, MD; B.S. (Morgan State University); Public Administration

Sean Kennedy Keller, Monroeville, PA; B.S.B.A. (West Virginia University); Public Administration

Jeanna Marie Kettles, San Antonio, TX; B.B.A. (Incarnate Word College); Public Administration

Ann Pennington Laubach, Columbus; B.A. (Oberlin College); Public Administration

Beverly Jean Mullet, Columbus; B.A.Jour.; Public Administration

Patricia Ann Peters, Dublin; B.S.Bus.Adm. (University of Nebraska at Lincoln); Public Administration

Theresa Kaye Porter, Columbus; B.A.; Public Administration

Laurie Ann Rosavanes, Youngstown; B.S. (Youngstown State University); Public Administration

David Andre Thaeler, Mentor; B.S.Bus.Adm.; Public Administration

Sheila Margaret Van-Pankratz, Columbus; B.A. (Pan American University); Public Administration

Master of Science

Shamim Ahmed, Karachi, Pakistan; B.S. (N.E.D. University); Electrical Engineering

Ijeoma Ieyinwa Akusoba, Columbus; B.S. (University of Nigeria); Pharmacy

Curtis William Alden, Van Wert; B.S.Ag.E.; Agricultural Engineering

Aimee Rene Allen, Granville; B.S.Met.E.; Metallurgical Engineering

Nasir Khalid Amra, Worthington; B.S. (Vanderbilt University); M.D.; Computer and Information Science

Diana Jean Angus, Columbus; B.S.N. (Bluffton College); Nursing

Juan Diego Arango, Medellin, Antioquia, Colombia; Electronics Engineer (Universidad Pontificia Bolivariana); Computer and Information Science

Dale William Arbaugh, Jewett; B.S.Ag.; Agricultural Economics and Rural Sociology

Carlos Roberto Armas, Reynoldsburg; B.S. (State University of New York at Buffalo); Electrical Engineering

Richard Alan Asamoto, Columbus; B.S.; Computer and Information Science

Rachid Azzouzi, Morocco; B.A.; M.S. (I.A.V. Hassan II); Geodetic Science and Surveying

Keith Allen Bailey, Reynoldsburg; B.S.E.E.; Electrical Engineering

Hassan Saeed Basha, Jordan; B.Sc. (The University of Michigan); Nuclear Engineering

Jameelil Belwafa, Tunis, Tunisia; B.S.M.E.; Mechanical Engineering

Mary Louise Bennett, Columbus; B.S.H.E.; B.S.Nurs. (Ohio Wesleyan University); Nursing

Kathryn Elizabeth Berry, Columbus; B.S.N. (Capital University); Nursing

Najib Ahmad Bhatti, Islamabad, Pakistan; B.S.C.E. (The University of Engineering and Technology); Civil Engineering

Daniel Bien, Columbus; B.S.C.I.S.; Computer and Information Science

Donna Romonto Black, Chesterland; B.S. (Ohio University); Industrial and Systems Engineering

James Victor Blackwell, Hamilton; B.S.C.E.; Microbiology

Jaime Luis Bou, Santo Domingo, Dominican Republic; Bachelor's (Technology Institute of Santo Domingo); Agricultural Economics and Rural Sociology

Joyce Braman, Sunrise, FL; B.S. (Bob Jones University); Home Economics

Kimberley L. Brantley, Fairfield; B.S.Pharm.; Pharmacy

Richard Gerard Brill, West Mansfield; B.S.Ag.; Agricultural Education

Donna Marie Broermann, Camden; B.S.Ag.; Animal Science

Phillip Andrew Brooker, Marietta; B.S. (Case Western Reserve University); Computer and Information Science

Dinah Beth Brothers, Paducah, TX; B.S. (Texas Technological University); Home Economics

Robert Dale Burns, Rockwood, MI; B.S. (Wayne State University); Electrical Engineering

Paul Russell Bunte, Dayton; B.S. Engineering (Wright State University); Industrial and Systems Engineering

Glenn Edward Calfee, Cleveland, TN; B.S. (The University of Tennessee); Dairy Science

Guillermo J. Campistegu, Westbury, NY; B.S. (State University of New York at Buffalo); Aeronautical and Astronautical Engineering

Carl David Chadwell, Columbus; B.S.C.E.; B.S.Surv.; Geodetic Science and Surveying

Hao-po Chan, Taiwan, R.O.C.; B.S.E.E. (National Cheng Kung University); Electrical Engineering
Jianru Chang, P.R.C.; Bachelor's, Master's (Harbin Institute of Technology); Mathematics

Yi-Feng Chang, Taichung, Taiwan, R.O.C.; B.S. (Taipei Medical College); Home Economics

Chao-Lien Chen, Taipei, Taiwan, R.O.C.; Bachelor's (Tai Ching Hua University); Industrial and Systems Engineering

Praakoon Chen, Samutprakan, Thailand; B.S.E.E.; Electrical Engineering

Yu-Shu Chen, Kaohsiung, Taiwan, R.O.C.; B.S. (National Central University); Civil Engineering

Po-Hong Chi, Taichung, Taiwan, R.O.C.; B.A. (Taipei Medical College); Home Economics

Woong Chul Choi, Seoul, South Korea; B.S. (Seoul National University); Mechanical Engineering

Lawrence Vito Cipriani, Columbus, B.S. (Case Western Reserve University); Computer and Information Science

Jeffrey Wade Collins, Oxford; Physiological Optics

Timothy Leo Comstock, Columbus, B.A. (The College of Wooster); O.D.; Physiological Optics

Kathleen Ann Cooper, Bellevue, WA; B.S. (Washington State University); Zoology

John M. Crawford, Fort Wayne, IN; B.A.; Preventive Medicine

Julie Kay Cronk, Columbus; B.A.; M.A. (Middlebury College); Natural Resources

Walter Bartlett Curtis, Columbus; B.S.C.E., Civil Engineering

Diane Christine D’Abate Cienasz, Madison; B.A. (The University of Akron); Allied Medical Professions

Norine Jo Daugherty, Mansfield; B.S. (Denison University); Microbiology

Youping Deng, Hubei, P.R.C.; B.S. (The University of Science and Technology of China); Physics

Deepak Arun Deshpande, Bombay, Maharashtra, India; B.Tech. (Indian Institute of Technology); Computer and Information Science

Ronald Louis Dilavor, Hilliard, B.S.E.E.; Electrical Engineering

David Lawrence Deerfoot, Iron Ridge, WI; B.S. (The University of Wisconsin at River Falls); Agricultural Education

Susan M. Donahue, Chicago, IL; B.S.N. (The University of Iowa); Nursing

Philip Lee Early, Alliance; B.S.Pharm.; Pharmacy

Henry Sylvester Elchert, Tiffin; B.S.Agr.; Agricultural Education

Lisa Kay Elderbrock, Findlay; B.A. (Muskingum College); Statistics

Steven William Ellingson, Jacksonville, FL; B.S. (Clarkson University); Electrical Engineering

Amelito Gomez Enriquez, Caloocan City, Philippines; B.S. (The University of the Philippines); Geodetic Science and Surveying

Li-Hwa Fang, Taichung, Taiwan, R.O.C.; B.S. (The National Taiwan University); Mechanical Engineering

Steven John Farmer, Pemberville; B.S.Agr.; Animal Science

Howard Allan Fend, Schuyler, NE; B.S. (Nebraska Wesleyan University); Computer and Information Science

Eduardo Antonio Fernandez Falcon, Buenos Aires, Argentina; Geodetic Science and Surveying

Daniel Smith Finley, New London; B.S.Pharm.; Pharmacy

Deanna M. Fry, Cincinnati; B.S. (The University of Cincinnati); Environmental Biology

Joe Tjin Fui, Indonesia; B.S. (University of the Philippines); Electrical Engineering

Aristides Stavros Galanopoulos, Agrinio, Greece; Diploma (National Technical University of Athens); Electrical Engineering

Suzanne West Gerlach, Columbus, B.S.N. (Capital University); Nursing

Anil Goel, Delhi, India; B.E. (Delhi College of Engineering); Mechanical Engineering

Scott Benson Griswold, Dallas, TX; Bachelor's (Texas A & M University); Computer and Information Science

Daniel Paul Haas, Dublin; B.S (Temple University); Pharmacy

John Milton Hall, Dallas, TX; B.S. (Texas A & M University); Computer and Information Science

Donald Valentine Hallock, Bridgeville, PA; B.S.A.A.E.; Aeronautical and Astronautical Engineering

Myoung-Soo Han, Seoul, South Korea; B.A. (Dongguk University); Industrial and Systems Engineering

Mabrouka Hani, Tunisia; B.S.M.E.; Mechanical Engineering

Barbara Ann Harrison, Columbus; B.S. (University of Delaware); Chemistry

Joel Robert Hartman, Fish Lake Valley, NV; B.S., B.S. (LeTourneau College); Welding Engineering

Kyle Jay Hartman, Columbus; B.S.Nat.Res.; Environmental Biology

George Estady Haasoun, Ratha, Kesravan, Lebanon; B.S. (Lebanese University); D.O.Sp.Aviations (Ennace); Aeronautical and Astronautical Engineering

David Edward Heff, Troy; B.S.Nat.Res.; J.D. (The University of Cincinnati); Natural Resources

Sunho Hong, Seoul, South Korea; B.S. (Seoul National University); Statistics

Kevin Scott Hoyer, Westerville, B.S. (Case Western Reserve University); B.A. (Marietta College); Mechanical Engineering

Dennis D. Humphreys, Columbus; B.S. (Youngstown State University); M.S. (Ohio University); Computer and Information Science

Colville Griffith Hutchinson, Tappahannock, VA; B.S. (Virginia Polytechnic Institute); B.S. (Virginia Polytechnic University); Agricultural Economics and Rural Sociology

Wendy Sue Hutchinson, Kettering; B.S.C.E.; Civil Engineering

Jann Machotka Ichida, Delaware, B.S. (University of Wisconsin at Madison); Preventive Medicine

Diane Kay Impellizeri, Manville, NJ; B.A. (Stockton State College); Home Economics

David Brian Kallander, Hamilton; B.S. (Miami University); Entomology

Sridar Kundaswany, Olmsted Township; B.S. (Case Western Reserve University); Electrical Engineering

George Kanellopoulos, Athens, Greece; B.S.Bus.Adm. (Athena Graduate School); Computer and Information Science

Hang-Bong Kang, Jinhae, South Korea; B.S. (Hanyang University); Electrical Engineering

Richard Tucker Kaul, Westerville; B.S. (University of Illinois at Urbana-Champaign); Electrical Engineering

Mark Eugene Kelley, Canton; B.S.Agr.; Geology and Mineralogy

Steven Curtis Kenyon, Columbus; B.S. (Pennsylvania State University); Geodetic Science and Surveying

Bradford Lee Kess, Beachwood; B.S.Food Tech., D.D.S., M.A.; Dentistry

Patricia McGuire Kessler, Rocky River; B.S. (Saint Louis University); OSU Biochemistry Program
Hamza Sabea Khamees, Columbus; B.S. (Baghdad University); Geode Science and Surveying

Jongsoo Kim, South Korea; B.S. (Seoul National University); Mechanical Engineering

Nikolaos Kirilis, Florina, Greece; B.S. (Wright State University); Mechanical Engineering

Frederick T. Kleenow, Columbus; B.S. (Case Institute of Technology); M.S.; Mathematics

John Mews Klinger, West Bend, WI; B.S. (The University of Wisconsin at Madison); Mechanical Engineering

Joseph Albert Koberlein, Uniontown; B.S. (The University of Akron); D.D.S.; Dentistry

Kristin Benne Kremers, Columbus, B.A. (Wittenberg University); Natural Resources

Sriram Krishnaswami, India; B.Tech. (Indian Institute of Technology); Industrial and Systems Engineering

Suresh Kumar, Bhalgatpur, Bihar, India; B.S. Tech. (Indian Institute of Technology); Ceramic Engineering

Todd William Langer, Kent; B.S. (The University of Cincinnati); Bio-Medical Engineering

Jia-Cheng Cindy Lao, Shanghai, P.R.C.; B.A. (Berea College); Statistics

Stephane Rene Latrelle, Grenoble, Isere, France; Baccalaurat (Ulysee Champollion Grenoble); Ing. Cim. del Mines (Ensuye Saint-Etienne); Metallurgical Engineering

Jin-Koo Lee, Seoul, South Korea; B.S. (Seoul National University); Home Economics

Pey-Chii Lee, Taipei, Taiwan, R.O.C.; B.A. (Tunghui University); Food Science and Nutrition

James Richard Lemon, Mechanicsburg; B.A.; Entomology

Dorca Anne Lewe, Troy; B.S. Nurs.; Nursing

Hong Li, P.R.C.; B.S. (Sichuan University); Physics

Robert John Limardi, Brooklyn, NY; B.S. (Union College); D.D.S. (State University of New York at Stony Brook); Dentistry

Bih-Fen Lin, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan Normal University); Microbiology

Min-Chieh Lin, Taipei, Taiwan, R.O.C.; B.S. (Taipei Medical College); Home Economics

Zhenzi Lin, Shanghai, P.R.C.; B.S. (The University of Science and Technology of China); Physics

Yuanjun Liu, Shanghai, P.R.C.; B.S. (Shanghai University of Science and Technology); Bio-Medical Engineering

Richard Lowry, Pembroke, NC; B.A. (The University of California at Berkeley); M.D. (Case Western Reserve University); Preventive Medicine

David Jeffrey Magley, Worthington; B.S. Cer.E.; Ceramic Engineering

Melpi Rebecca Magliveras, Lincoln, NE; B.S. (The University of Nebraska at Lincoln); Computer and Information Science

Mary E. Mahoney, Canton, B.S. (Mercy College); Allied Medical Professions

Chee Leung Mak, Hong Kong, B.S. (Hong Kong Baptist College); Physics

Sriram Alwar Mandayam, India; B.E. (Annamalai University); Electrical Engineering

Mary Faye Maney, Marion; B.S.H.E.; Home Economics

Kevin V. Martin, Columbus, B.S. (The University of Delaware); Chemistry

Kenneth Michael Masica, Cleveland; B.S.E.E. (Cleveland State University); Electrical Engineering

Margaret Ann Masterson, Plain City; B.S., D.V.M.; Veterinary Clinical Sciences

Timothy Frederick Mengers, Chillicothe; B.S. (University of Cincinnati); Nuclear Engineering

Tarek Eawzy Mennita, Cairo, Egypt; B.S. (Cairo University); Civil Engineering

Pavllos George Mikellides, Larnaca, Cyprus; B.S.A.A.E.; Aeronautical and Astronautical Engineering

Bela David Mikoafaly, Avon Lake; B.S. (Case Western Reserve University); Computer and Information Science

Suzanne L. Miller, Fairport, NY; B.S. (The University of Dayton); Computer and Information Science

Virginia Jean Mol, Mysska City, FL; B.S. (College of Mount Saint Joseph); Nursing

Jean-Charles Mombo-Caritan, Paris, France; B.S. (The University of Paris); Mechanical Engineering

Sally Witten Morgan, Worthington; B.S. Nurs.; Nursing

Scott Christopher Morgan, Milwaukee, WI; B.S. (Nebraska Wesleyan University); Chemistry

K. Sureswaran Narayan, Bombay, India; B.S. (Bombay University); M.S. (Indian Institute of Technology); Physics

Edward Raymond Naylor, Reading, PA; B.S. (Cornell University); Metallurgical Engineering

Ramakrishna Venkata Nekkanti, India; B.Tech.; (Indian Institute of Technology); Mechanical Engineering

Daniel Anthony Oblinger, Burlington, KY; B.S. (Northern Kentucky University); Computer and Information Science

Michael Joseph Onders, Cleveland; B.S. (Miami University); Computer and Information Science

Irene Orynchak, Lorain; B.S. (The University of Toledo); Pharmacy

Christine Renee Osborne-Hurdley, Columbus; B.S.; Microbiology

Michael Huerta Padilla, Philippines; B.S. (University of the Philippines); Metallurgical Engineering

John Andrew Pale, Sterling Heights, MI; B.S. (Michigan Technological University); Mechanical Engineering

Nelson Martinez Panulo, Naga City, Philippines; B.S. (The University of the Philippines); Microbiology

Nikolaos Pandis, Corfu, Greece; D.D.S. (Athens University); Dentistry

Jehangir Khodadad Parvareshi, Bombay, India; B.S. (University of Bombay); Electrical Engineering

Saraporn Pattanajitvilai, Udonthani, Thailand; B.S. (Kasetsart University); Dairy Science

Kevin Michael Pensinger, Washington Court House; B.S. Agr.; Agricultural Education

Maria Aurora Cadayona Pineda, Quezon City, Philippines; B.S. (University of the Philippines); Statistics

Ronald John Pucchiari, Rome, NY; B.S. (State University of New York at Oneonta); Veterinary Physiology and Pharmacology

Anuradha Prakash, Bombay, India; B.S. (Bombay University); Food Science and Nutrition

Robert Martin Price, Jr., Girard; B.S., M.S. (Youngstown State University); Statistics

Maria Agnes Fuangco, Jacksonville, FL; B.S. (Florida State University); Allied Medical Professions

Dharmendra Mythili Ramachandra, India; B.S. (Osmania University); Mechanical Engineering

Mahendra Arcot Ramachandran, Madras, India; B.S.C.I.S.; Computer and Information Science

James Richard Ranft, Fairborn, B.S. (Bowling Green State University); Physiological Optics

---

1271
Judith Rose Arroyo, Columbus; B.A. (University of Akron); Social Work
Anne Marie Barker, Orient; B.S. Soc. Wel.; Social Work
Francis Bednar, Cambridge, CA; B.A. (Mount Saint Mary's College); Social Work
Tara Lynn Bell, Princeton Junction, NJ; B.A. (Miami University); Social Work
Christine Black, Washington Court House; B.A.S.W. (Wright State University); Social Work
Carol Jeffers Borelli, Ashtabula; B.F.A.; Social Work
Lisa Marie Borelli, Columbus; B.S.Ed.; Social Work
John Edward Brandel-Tatro, Davison, MI; B.S. Soc. Work; Social Work
Marcia Lenore Brecht, Grove City, B.A. (Findlay College); Social Work
Donald James Brewer, Reynoldsburg; B.S. Soc. Wel.; Social Work
Dawn Marie Brodnick, Mentor, B.A. (Cleveland State University); Social Work
Judy Lynne Cameron, Johnstown, PA; B.A. (University of Pittsburgh); Social Work
Debra Cavanagh, Beaver Creek; B.A.S.W. (Rutgers University); Social Work
Jeanette Marie Chavez, Collins; B.S.W. (Capital University); Social Work
Sara Chan, Israel; B.S.W. (Bar Ilan University); Social Work
Mary Davis Clayton, Denzler; B.S.S.W. (Bowling Green State University); Social Work
Kathleen A. Coale, Columbus; B.S.Ed.; Social Work
Thomas William Conley, Columbus; Bachelor's (Ohio University); Social Work
Leslye Marie Coombs, Rolling Meadows, IL; B.S (Capital University); Social Work
Lorinda Kay Cotter, Springfield; B.S.W. (Anderson University); Social Work
Illdiko Elizabeth Crawford, Mt. Gilead; B.A. (University of Toledo); Social Work
Marlene Nygard Daubert, Columbus; B.S. (Northwest Missouri State University); Social Work
Mary A. Duffner, Cincinnati; B.S. Soc. Wel. (Xavier University); Social Work
Paula Alice Duplessis, Lancaster; Bachelor's (Ohio University); Social Work
Mitchell Keith Eckstein, Columbus; B.S. Soc. Wel.; Social Work
Elizabeth Natalie Egges, Columbus; B.S.Soc. Work; Social Work
Cheryl Lomaz Evans, Bexley; B.A. (Ursuline College); Social Work
Veronica Ann Finneghan, Shelby; B.S.Soc.Work; Social Work
Evelyn Ford, Barberton; SC; B.A. (Morris College); Social Work
Debra Jean France, Worthington; B.A. (Ohio University); Social Work
Mary Jane Jost Frank, Pickerington; B.S.W. (Capital University); Social Work
Anne F. Fullarton, Worthington; A.B. (Mount Holyoke College); M.A. (New York University); Social Work
Leaill Ellen Gagne, Columbus; B.S. (Ohio University); Social Work
Theresa Ann Garrison, Westerville; B.S.Soc. Wel.; Social Work
Roenia Jittauna Gleese, Vicksburg, MS; B.S.W. (Jackson State University); Social Work
Shirley Smoak Goldhaber, Columbus; B.S.Soc. Work; Social Work
Teresa Sha Gordon, Columbus, IN; B.A. (Purdue University); Social Work
Peggy Sheryl Gouch, Columbus; B.A. (Oberlin College) Social Work
Karen Marie Grider, Granada Hills, CA; B.A. (Wheaton College); Social Work
Richard Jeffrey Griss, Middletown; B.A.; Social Work
Bettina Angela Guynn, Newport News, VA; B.A. (Elizabeth City State University); Social Work
Carolyn Jane Gyuro, Columbus; B.A.; Social Work
Rejesa Renea Haynes, Louisville, MS; B.S.W. (Jackson State University); Social Work
Kimberly Jo Haywood, Coshocton; B.S.Soc. Work; Social Work
Kevin William Hepner, Fairview Park; B.S.S.W. (Bowling Green State University); Social Work
Eileen Adele Hill, Dublin; B.S.Soc.Wel.; Social Work
Jeanne M. Hochman, Cleveland; B.S.Ed.; Social Work
Cheryl Ann Hostetler, Plain City; B.S. Soc. Work; Social Work
Marcia Jean Huffman, Westerville; B.A.; Social Work
Donna Kay Humphrey, St. Paris, B.A. (Wright State University); Social Work
Estella Bernal Ibarra, Dayton, B.S. (The University of Akron); Social Work
Joseph Gerard Jardine, Maumee; B.S. (Bowling Green State University); Social Work
Karen Ann Jones, Cleveland; B.A.S.W. (The University of Akron); Social Work
Alfred Louis Joseph, Columbus; B.A.; Social Work
Ann Catherine Junkin, Wooster; B.A. (The College of Wooster); Social Work
Kathleen Ulanie Kameenui, Honolulu, HI; B.A. (The University of Hawaii); Social Work
Chul-Hee Kang, Columbus, B.A. (Yonsei University); Social Work
Donald Lee Keneipp, Columbus; B.A.; Social Work
Steven Douglas Kolarz, Ashland; B.A. (Ashland College); Social Work
Seung Kwon, South Korea; B.A. (Yonsei University); Social Work
Jo Ellen Lane, Worthington; B.S.Soc.Work; Social Work
Edward Raymond Langlois, North Dartmouth, MA; B.A. (Tufts University); M.A. Ph.D. (Cornell University); M.A. (Catholic University of America); Social Work
Deborah Susan Lauber, Owosso, MI; B.A. (Wheaton College); Social Work
Eric John Lawrence, Pataskala; B.A.; Social Work
Lynette Helms Loury, Columbus; B.A.; Social Work
Lisa Marie Lubkenen, Columbus; B.A. (Miami University); Social Work
Cynthia Kloss Lutie, Columbus; B.A. (The University of Wisconsin at Madison); Social Work
Susan Lynn Mack, Jamestown; B.A. (Urbana University); Social Work
Lori Michelle Maiier, Columbus; B.S.; Social Work
W. Glenn McCreese, Marion; B.S.Soc.Work; Social Work
Joseph Brian McKnight, Columbus; B.S. (Bowling Green State University); Social Work
Kathleen Lyn McNeil, Columbus; B.A. (Miami University); Social Work
Linda Irene Meltzer, Columbus; B.A. (The University of Rhode Island); Social Work
Carol Ann Middendorf, Bellbrook; B.A. (Georgetown College); Social Work
Cheryl Lynne Molter, North Royalton; B.S.Soc.Work; Social Work
Barbara R. Nauman, Marion; A.A., B.S.Soc.Wel.; Social Work
Jacqueline Kay Neff, Westerville; B.A. (Anderson University); Social Work
Elaine Newberry, New Boston; B.A. (Bowling Green State University); Social Work
Linda Agin Peters, Columbus; B.A. (Bowling Green State University); Social Work
Mary-Joan Picone, East Hartford, CT; B.A. (Saint Michael's College); Social Work
Elizabeth Ann Raines, Akron; B.S.Soc.Wel.; Social Work
Douglas Michael Post, Columbus; B.A., M.A.; Social Work
Mary Kathleen Steed-May, Columbus; Bachelor's (Ohio University); Social Work
Mary Kathleen Steed-May, Columbus; Bachelor's (Ohio University); Social Work
Kathy K. Ralph, Worthington; B.S.Bus.Adm.; Social Work
Gayle Marie Root, Worthington; B.S.Soc.Wel.; Social Work
Linda Kay Royalty, Worthington; Bachelor's (Thomas More College); Social Work
Marian K. Rubin, Cincinnati; B.S.W. (University of Cincinnati); Social Work
Lynda M. Runyon, Blanchester; B.A. (Otterbein College); Social Work
R. Jeffrey Ryan, Lima; B.S.; Social Work
Susan Penney Sanderson, Buffalo, NY; B.S. (State University College at Buffalo); Social Work
Richard Joseph Sapp, Columbus; B.S.Soc.Wel.; Social Work
Catherine Ann Schweitzer, Sidney; B.A. (College of Mount Saint Joseph); Social Work
Darryl Wade Riser, Houston, TX; B.A.S.W. (Prairie View A&M University); Social Work
Ellen Elizabeth Snyder, Hudson; B.S. (Kent State University); Social Work
Barbara Kay Solt, Amanda; B.S. (Miami University); Social Work
Michael Patrick Spangler, Columbus; B.S.; Social Work
Barbara Ann Spellerberg, Columbus; B.S. (Boston University); Social Work
Andrea Maria Spendiarian, Sandusky; B.S.S.W. (Bowling Green State University); Social Work
Kathleen Ann Staker, Portsmouth; B.A. (Ohio University); Social Work
Gayle Lauren Stanford, Columbus Station; B.A. (Kent State University); Social Work
Stephanie Michelle Stanislaw, Trenton, MI; B.S. (Central Michigan University); Social Work
Mary Kathleen Steed-May, Columbus; Bachelor's (Ohio University); Social Work
David Keith Steele, Waverly; B.A. (Cumberland College); Social Work
Douglas Howard Steiner, West Liberty; B.A. (Goshen College); Social Work
Patricia C. Tatarzycki, Centerville; B.A. (The University of Akron); Social Work
Kathryn A. Thompson, Columbus; B.S.Ed.; M.S. (The University of Dayton); Social Work
Nickel D. Trout, Huntsville; B.A. (Urbana University); Social Work
Tracy Kathleen Vosdoganes, Toledo; B.S.S.W. (Xavier University); Social Work
Juanita Westerfield, Manchester, KY; B.S.Ed. (Cumberland College); Social Work
Linda Kay Whikehart, Zanesville; B.S. (Villa Maria College); Social Work
Sharon Kay White, Columbus; B.S.Soc.Wel.; Social Work
Mauria Kirkpatrick Wideman, Westerville, B.A.; Social Work
Kimberly Ann Woodyard, Granville; B.A.; Social Work
Jean Kaufman Yost, Columbus; B.A. (Colorado Woman’s College); Social Work
Mary Kathleen Zingrone, Massillon; B.S.W. (University of Akron); Social Work
Michael C. Zorich, Columbus; B.S.Ed., M.A.; Social Work
Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

College of the Arts
Dean: Donald Harris

Bachelor of Arts

Colin Roger Adams, Columbus
Rossini M. Alda, Tiffin
Robert Scott Bauer, Columbus
Thomas Alan Bauman, Cincinnati
Anthony Thomas Bernens, Cincinnati
John Maxwell Brown, Columbus
Liana Grace Coutts, Delaware
Lisa Fay Cribbs, Hamilton
Cindy K Crouse, Toledo
Nancy Ann DeLapa, Akron
Michael Merritt Engle II, Wapakoneta
Jeffrey Lynn Felkey, Lima
Deborah Lynn Gissinger, Clinton
Mark Allen Irvin, Smithville
Kevin Sean Kinlin, Dayton
Scott Dwain Kreisle, Graham
William Anthony Krause, Bedford Heights

Bachelor of Fine Arts

Jana Albert, West Liberty
Cheryl Lyn Beck, Pittsburgh, PA
Nilza M. Bianco, Thielis, NY
Susan Faith Brown, Lyndhurst
Mark Collins Burnett, East Liverpool
Carla Jean Burson, Salem
Angela I. Cain, Caledonia
James Eugene Cross, Strongsville
Richard Whitman Davis, Lighthouse Point, FL
Deborah Marie Downs, Englewood
Patricia A. Drago, Parma
Sara Margaret Green, New York, NY
David Patrick Hess, Cleveland
Stephen Ray Hughes, Nicholasville, KY
Kelly Kathleen Hunt, Worthington
Carol Pender Jernigan, Marion
Abby Lynn Kantor, Glenview, IL
Barbara Anne Koyle, Canton
Shawn Angus MacInnis, Germantown
Christopher Dean Madden, Arcanum
Mary Michelle Middeler, Columbus
Gary Lawrence Molina, Parma
Jeffrey Lawrence Murphy, Kettering
Holly Marie Natwora, Columbus
Robert Joseph Neveu, Columbus
Erin Stephanie O'Toole, Powell
Mary Kathryn Plummer, Westerville
Deborah Lee Rhodes, Garrettsville
Florence Michelle Santors, Cincinnati
Alexander Gust Savakis, Warren
Scott Andrew Skiles, Pickerington
Richard Ramsay Stander III, Mansfield
Daniel Jay Sullivan, Columbus
Darren Howard Thompson, Plain City
Warren Allen Trefz, West Union
Peter Alan Wieneke, Middletown
Donna Jean Zoll, Columbus

Bachelor of Music

Stefanie Ann Dennis, Kansas
Christina Naumoff Dorinsky, Orrville
James Joseph Dorinsky, Columbus
Margaret Ann Fischer, Euclid
Jodi Sue Graham, Cincinnati
Dale Ann Gray, Grove City
Marcus Shawn Gresham, Columbus
Jeffrey Allan Montgomery, Columbus
Sarah Woodward Paul, Worthington
Harry Joe Polen, Jr., Alliance
Maria Lynn Renzetti, Columbus
Stephanie Ann Summers, Clyde

Bachelor of Education

Laura Christine Butler, Akron
Mary Bridget Crowley, Columbus
Judith Ann Fox, Boone, NC
Shawn R. Gatton, Belleville
Lyneene Grace, Hudson
Scott Elwood Hartman, Troy
Theresa Anne Hibner, Wapakoneta
Barbara Ann Rogers, Pataskala
Jeff Lynn Satterfield, Madison
Teri Lynn Shook, Chesterhill
Kevin Howard Storch, Greenfield, IN
Dana Fritz Worth, North Royalton
Patricia Mary Yost, Newark

Bachelor of Music Education

Kathleen Ann Boes, Upper Sandusky
Deborah Ann Borland, Alliance
Marie Curth, Newark
Bryan Lynn Day, Shelby
Christina Naumoff Dorinsky, Orrville
Mary Joanne Evans, Columbus
Michael Joseph Ferguson, Cincinnati
Suzanne Marie Goedde, Lima
Christy Kathleen Hoey, Kettering
Amy Marie Isler, Massillon
Scott Allan Jones, Fairfax, VA
Kurt Mehl, Columbus
William Porter Myers, Toronto
Elizabeth Ann Natali, Hamilton
Alan Michael Nordyke, Wilmington
Kristin Lee Oberhaus, Gibsonburg
Harry Joe Polen, Jr., Alliance
Michelle Joan Rachocki, Worthington
Julie Rose Rolwing, Reynoldsburg
Judith Renee Smith, Amlin
Miranda Diane Smucker, Grove City
Shelby Ann Sparks, Mechanicsburg
Wendy Jo Turner, Conshohocken
Pamela Jean Urig, Lancaster
Julie Leslie Vah, Columbus
Kathryn Anne Zimmermann, Salem
George Jay Zonders, Westerville

Bachelor of Science in Audio Recording

John Paul Azelevandre, Columbus
James Joseph Dorinsky, Columbus
Brian Scott Kallaher, Urbana
Matthew Everett Young, Rossford

Bachelor of Science in Industrial Design

Steven Michael Andreano, Brooklyn
Daniel Murray Beam, Cambridge
Theresa Diane Bell, Upper Arlington
Karine Lynn Bielefeld, Cleveland
Sharon Adrian Bryant, West Jefferson
Mark Vincent Budde, Cincinnati
Eden Elinor Carlson, Bowling Green

*Offered jointly by the College of the Arts and the College of Education*
Amy Louise Bowman, Mansfield
William David Branstool, Utica
Terry Layne Brodbag, Columbus
Brenda Renee Brown, Lima
Mary Anne Brown, Columbus
Bonnie L.B. Butcher, Columbus
Lauren Holly Candel, Cleveland
Jennie Babcock Chapman, Columbus
Jessica Jennings Clark, Fort Knox, KY
Lyrene Marie Cline, Warren
Daphne Deane Cee, New Carroll
Michael L. Cole, Crestline
Donovan Erwin Collins, Wallingford, CT
Dean James Connolly, Kent
Mark Douglas Cooper, Russellville
Maryellen Corna, Columbus
Paige Anne Crossley, Grove City
Eileen Elizabeth Danko, Sandusky
Thomas Michael Dee, Cleveland
Susan Louise Deier, Columbus
Clorinda Theresa DelGigante, Lindenhurst, NY
Brandy Kaye Denisso, Worthington
Ethan Robert Dicks, Columbus
Anne Marie Drake, Columbus
Ondrea Alexis Duto, Cincinnati
Paul Steven Eisenstein, Berea
Alexia Jean Ensign, Wellington
Terrie Marie Esman, Columbus
Donald John Fallon, Columbus
Monika Christina Foy, Columbus
Ann Margaret Gamertsfelder, Newark
Christine Anne Gayton, Columbus
Prudence Dewey Gould, Columbus
Sara Margaret Green, New York, NY
Richard John Grega, Columbus
Paul Raymond Greve, Botkins
Andrew Scott Gudge, Warren
Mark Sigmar Gutentag, Pepper Pike
Angela Louise Guzzo, Columbus
Melissa Louise Hart, Columbus
Stephanie Jeanne Herwick, Wadsworth
Sally Annette Hess, Upper Arlington
Susan Elizabeth Hill, Toledo
Laurel Lee Hodory, Cincinnati
Shea Louise Holzman, Grove City
Thibeau Marguerite Ingold, University Heights
Paulette Marie Ivan, Hartville
Craig Brendan Jacobsen, Worthington
Linda Patricia Johnson, Euclid
Glenn Thomas Jones, Otway
Christopher Jon Kaune, Newburgh, IN
Mary Jennifer Klein, Akron
Mark Edward Knaap, Sylvania
Bonnie Zoe Kuhn, Columbus
Stacie Helaine Kulback, Hamilton
Matthew Allan Lambert, Bellefontaine
Lawrence Wayne Lanum, Trotwood
John Thomas Lasher, Akron
Robert J. Lavigna, Bath, PA
Theresa Ann Leonard, Columbus
Pamela Kaye Lewis, Akron
Jennifer Lee Leymaster, Westerville
James Andrew Lodiro, Findlay
Cynthia B. Logan, Ashville
James Gerard Luebbe, Cincinnati
Christine Mary Luehrs, Upper Arlington
Maura Lavender MacDonald, Ducksbury, MA
Raymond James Madzia, Columbus
Nora Malone, Avon Lake
Molly Anne Manzi, Columbus
M. Bridgette Marria, Columbus
Christine Rae Marrell, Columbus
Gary Allen Martin, Columbus
Karen Elizabeth Maxwell, Columbus
Cathleen Ann McBride, Columbus
Gloria Anne McCauley, Columbus
Tina Maria McCullough, Columbus
Matthew David McDaniel, Newark
Marc Richard McDowell, Columbus
Josefa H. Mentraz, Columbus
Valerie Lynn Merklin, West Jefferson
Trenton Douglas Merricks II, Newark
Krista Marie Meyer, Circleville
Julie Ann Miller, Willoughby Hills
James Richard Mitchell, Cuyahoga Falls
Thomas Mikar, Lorain
Krysta L. Moore, Mansfield
Michelle Yvonne Molano, Strongsville
Kara Ann Morgan, Waynesfield
Jodi Beth Morrison, University Heights
Emily Magdalene Mott, Dayton
Patricia Ann Murasaki, Centerville
Paul Andrew Murray, Lakewood
Stephen Robert Murray, Fredericstown
Anna Maria Neal, Lima
Jeffrey Hill Nicholl, Moreland Hills
Robert Allen Noggle, Vermailles
Erin Lee Noviski, Columbus
Margaret Mary Olsen, Broadview Heights
Juyong Pan, Dayton
Tamarah Therese Faron, St. Thomas, VI
Michael Ben Pasternak, Beachwood
John Gregory Patroulis, Toledo
Benjamin Edward Patterson, Dublin
Raymond Joseph Paumier, East Canton
Ifigenia Polychronis, Kettering
Kris Reed Poppe, New Bremen
D. Scott Powell, North Canton
Teresa Lynn Pyles, Grove City
Kimberly Dale Ramey, Lexington
Stanley Joseph Rapley, Garfield Heights
Jill Annette Redo, Columbus
Robert Joseph Reynolds, Norwalk
Diana Lynn Ricci, Newtown Square, PA
Nicholas Michael Ricardi III, Brook Park
David William Riegel, Greenville
Patricia Ann Rieman, Wooster
Lori Beth Riga, Mayfield Heights
John Patrick Romanoski, Lancaster
Samuel William Rushay, Columbus
James M. Ryan, Groveport
Kimberly Ann Salamon-Smith, Richfield
James Robert Schafer, Columbus
Judith S. Schumacher, Columbus
Marshall S. Scott, Findlay
Gilan A. Sharaf, Westerville
Stephen John Shaw, Columbus
Kenneath Richard Sibley, Columbus
Jonathan Paul Simon, West Orange, NJ
Jon Michael Sinclair, Springfield
Christienne Leigh Smith, Medina
James Michael Smith, Columbus
Scott David Smith, Piqua
Michael J Songer, Galion
John J. Spanik, Columbus
Martha Kay Stahl, Reading
Arthur Grant Stephens, Columbusiana
Sara Christine Stoner, Galion
John David Sullivan, Pickerington
Elizabeth Gay Sramek, Columbus
Sharyn Talbert, Columbus
Shalu Tandon, Marion
Beth Jo Terango, Euclid
Lisa Anne Thomas, Charlotte, NC
Christopher Ray Thompson, Columbus
Wade Hoffman Thornton, Pataskala
Martin Thurn, German Village
Lisa Kay Tilton, Bryan
Kenneth Joseph Trick, Niles
John Michael Tsonis, University Heights
Mary Ellen Ulrich, Columbus
Sherry Jean Van Buskirk, Kenton
Christine Lynne Varady, Mayfield Heights
David Nathaniel Wagner, Columbus
Katherine Ellen Walsmey, Sylvania
Mark Milo Waller, Norwalk
Diana Ross Webster, Columbus
Mark David Wigglesworth, Columbus
Carolyn S. Meckstroth Willburn, Columbus
Alicia Wolph, Fostoria
Ian Sze Wong, Worthington
Thomas M. Wood, Marion
Thomas Franklin Woodbury, Lima
Doretha Yoakum, Cologne, West Germany
Anthony T. Young, Columbus
Jeffery Cadle Young, Columbus
David Oskar Zimmer, Mentor
Karla Jean Zimmerman, Cincinnati

College of Mathematical and Physical Sciences
Dean: C. William Kern

Bachelor of Arts
Julie Marie Brinker, Greenville
John Merrit Ernst, Cincinnati
Thomas Stewart Fanning, Columbus
Tamarah Marie McCoy, Columbus
Tillmon Miller, Sandusky
Nicholas Nissley, Hones, PA
Paul Nathan Spahr, Forest Park
Herbert Lee Spanfeller, Gibsonburg
Jennifer Lee Stepp, Uniontown
Wen Ting, Taiwan, R.O.C.

Bachelor of Science
Diane Marie Back, Middletown
Melinda Lee Bauder, Canton
Anne Margaret Bollinger, Columbus
Timothy Jan Bradrick, Mansfield
Eric William Breden, Columbus
Daniel Michael Bremer, Worthington
Christopher Donald Burton, Euclid
Richard Andrew Carmean, Columbus  
Edith Chang, Columbus  
Nicholas Chun Hon Chung, North Canton  
Lisa Ann Coubour, Perryburg  
Christopher Andrew Corna, South Dennis, MA  
Timothy Colin Crawford, Reynoldsburg  
Lorna Beth Crews, Bensenville, IL  
Keith Edwin Curnow, Sagamore Hills  
Darrell Dean Dewese, Canton  
Daniel W. Dewitt, Columbus  
Julia Ann Degen, Cridersville  
John DeNoon Evans, Reynoldsburg  
Michael Thomas Gibson, Columbus  
Randy L. Gloor, Columbus  
Richard John Grega, Columbus  
Nancy Marie Heiner, Piqua  
Margaret Mary Herren, Cleveland  
Lisa Renee Hildebrand, Brunswick  
Jeffrey Michael Hochman, Pittsburgh, PA  
David Russell Hocutt, Berea  
Larry Joseph Hoffman, Waverly  
Erick Scott Horn, Beavercreek  
Ruth Elaine Jackson, Columbus  
Robert Lee Jones, Columbus  
William David Killies, Huron  
Cynthia Jean Keaton, Gahanna  
Christopher Glenn Keck, Bay Village  
Kang San Kim, Springfield, VA  
Joseph Lee Koen, Alliance  
Brenda Lee Kratchevil, Chesterland  
Robert Thomas Lee, Mentor  
Christopher Martin Lott, Upper Arlington  
Dean William Lynd, Cincinnati  
Suzanne Marie Manning, Columbus  
Kyle James Maurer, Rock Hill, SC  
Thomas Dean McIlwhee, Galena  
Amy Susan Mckee, Chesterfield, MO  
Thomas Dean McKinley, Kenton  
David Gerard Miller, Lorain  
Thomas Wesley Miller, Springfield  
Wendie Margaret Moore, Cincinnati  
Richard Larry Morgan, Massillon  
Michael Lewis Motto, Columbus  
Brian Andrew Nagy, Worthington  
Partha Shankar Nandi, Wayne, MI  
Carvin B. Nickell, Cincinnati  
Dennis Paul O'Donnovan, Cincinnati  
Edward Joseph Prokop III, Parma  
Fredrick Mark Reeve, Upper Arlington  
Karen Judith Reich, Elyria  
Judith A. Riscey, Columbus  
Beth Ann Ross, Columbus  
Judith Louise Sands, Columbus  
Sharon Keith Sauls, Columbus  
Michael Alan Scheter, Bexley  
John Howard Smelling, Jr., St. Paris  
Gail Suzanne Stennett, Stow  
Laurie Michael Takaos, Painesville  
Jeffrey Harrison Templeton, Kettering  
Martin Thurn, German Village  
Michael Alan Titko, Ashland  
Scott Bryan Tofill, Austintown  
Dennis R. Unver, Canton  
Andrew Ricardo Vargas, Norwalk  
Lori Ann Waugh, Lancaster  
Penny Talyne Way, Cleveland  
Athena Vamvasiannas, Delaware

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Anthony Mitchell Adams, Toronto, ON  
Ontario, Canada  
Lori Helene Altman, Cincinnati  
Jeffrey Scott Amaker, Williamsport, PA  
Karey Marie Ancil, North Canton  
Lori Sue Andrews, Columbus  
Margaret Harriet Antill, Tiltonsville  
Richard Gene Archer, Jr., Columbus  
Megan Marie Archielo, Massillon  
Krista Lee Argo, Marysville  
Randy Douglas Arthur, Toledo  
Shari Lynnette Ayers, Baltimore  
Jeffery Allen Baggs, Columbus  
Jenniffer Leigh Barrows, Paoli, PA  
Allan Rex Baumgartner, Eastlake  
Jennifer May Seach, Chagrin Falls  
James McDowell Beals, Pataskala  
Jeffrey Alan Belanger, Warren  
Robert Paul Benner, Buffalo, NY  
Kimberly Ann Bernard, Columbus  
Mary Anne Berts, Pars  
Jeffrey Gene Blakeman, Johnstown  
Deborah Renee Bloom, Canton  
Laura Ann Elizabeth Blue, Sagamore Hills  
Sondra Berradine Blue, Richwood  
Edward Borowski, Northampton, MA  
Janelle Annette Bosse, Cincinnati  
Joseph Paul Bour, Columbus  
Jamey Marie Boyle, St. Clairsville  
Ted Hunter Boyle, Kent  
Jeffrey Gehring Brether, Columbus  
Julianne M. Brist, Columbus  
Nancy Jayne Briton, Columbus  
Cynthia Loie Bronson, Columbus  
Charles Allen Brown, Powell  
Sharon Marie Brown, Chesterland  
Wanda Denise Brown Columbus  
James Andrew Bruck, Columbus  
Thomas Richard Bubanich, Columbus  
Geneva Maureen Buckholz, Columbus  
Kristin Pamela Bujak, Stow  
David James Burbgord, Amherst  
Marina Marie Burghy, Thornville  
Debra Denise Burke, Columbus  
James Marcus Burke, Parma  
Joy Pheny Burleson, Thurman  
Joseph Alan Burley, Springboro  
P. David Cain, Cincinnati  
Genevieve Lea Calaway, St. Marys  
Robert Edward Caleares, Westerville  
Michelle Beth Camp, Vienna, WV  
Robert William Campbell, Jr., Delaware  
Caryn Beth Candisky, Bay Village  
George Michael Caplick, Euclid  
Tracy Lynn Carr, Columbus  
Kimberly Jean Carroll, Vandalia  
Brian Lee Carter, Clinton  
Christopher Scott Caton, Zanesville  
Thomas Anselo Cereto, Galion  
Christopher David Chapman, Painesville Township  
Jacqueline Chapman, Medina  
Brent B. Charlton, San Diego, CA  
Anushia Chaudhuri, Joliet, IL  
John Tilman Childs, Barnesville  
Amy M. Christen, Toledo  
Catherine Mary Clausung, Worthington  
Gray Gary Clift, Brunswick  
Elizabeth Ann Clough, Shelby  
Joanne Marie Clouse, Lancaster  
Heather Louise Coen, Wooster  
Katherine S. Cone, Columbus  
Mark Allen Cohen, Pepper Pike  
Christopher Collings, Upper Arlington  
Carolyn Launa Collins, Columbus  
Mark Robert Connes, Columbus  
Mary Ellen Coogan, Worthington  
Wanda Jean Corner, Columbus  
Mark Edmund Coughlan, Columbus  
Sally C. Coon, Columbus  
Shawn Crabtree, Marion  
James Scott Creed, Baltimore  
Rod C. Cridel, Lima  
Kimberly Ann Cullen, Sandusky  
Amy Geraysa Currin, Montgomery  
Rebecca Lynn Dalton, Westerville  
Debra Ann Daniel, Elyria  
Mikeile Eileen DeCosmo, Barrington, IL  
Dan J. Dees, Mansfield  
Melissa Ann Deighan, Painesville  
Cynthia M. Delile, Akron  
Glen M. Delman, Orange  
William Paul DeMora, Euclid  
John Lowell Detrick, Delaware  
Ann Elizabeth DiGirolomo, Island Heights, NJ  
Jonathan Douglas Dozor, Columbus  
Tania Elaine Dudley, Mary Esther, FL  
Kimberly Ann Dudle, Columbus  
John Thomas Dunham, Findlay  
Deborah Colleen Dunn, Kansas City, KS  
David Charles Dunton, Cincinnati  
Thomas Andrew Eberly, Massillon  
Beth Ann Edwards, Worthington  
Rick Alan Edwards, Pickerington  
Eric Stephen English, Madison  
Debra Lynn Erickson, Columbus  
Thomas Sears Ernest, Shaker Heights  
Jennifer Susan Falk, Cincinnati  
Michele Marie Farrel, Columbus  
David Alan Farrow, Columbus  
Jennynan Fen, Columbus  
Matthew Robert Ferguson, Cincinnati  
Sandy Norreen Few, Dayton  
Vickie Jeannette Fitzgerald, Columbus  
Patricia Michele Flanigan, Columbus  
Thomas Edwin Foose, Huron  
Elizabeth Regina Fox, Warren  
Margaret Ears Frank, Cincinnati  
Rachel Eileen Frank, Streetsboro  
Melissa Ann Freeman, Newark  
Martin Van Frenche, Parkersburg, WV  
Scott Christopher Frost, Columbus  
Harold Jacob Fryer, Jr., Hilliard  
Manabu Fujii, Tokyo, Japan  
Brian Scott Gabbard, Lebanon  
Deanna Lynn Gach, Elida  
Laura Anne Gallagher, Westlake
Martha Ellen Stowell, Portsmouth  
John Marshall Stretch, Hamilton  
Laura Ann Suber, Youngstown  
Karen Sue Tariff, San Antonio, TX  
Gene P. Taut, Biddeford  
Eileen Tevin, Westerville  
Gregory Marc Teller, Queens, NY  
Jill Charlene Thomas, Copley  
Tarri Jill Thomas, Hamilton  
James Matthew Troth, Bellefontaine  
Barbara Ellen Tully, Circleville  
Bridget Irene Tynzni, Marble Cliff  
Brian Quinn Vanik, Columbus  
Joseph John Varekette, Ashatabula  
Sonya Ariene Veloff, Westerville  
Michael Anthony Villane, Long Branch, NJ  
Donald Robert Wagner, Akron  
Jay Harry Wagner, Findlay  
Joseph Perry Wagner, Englewood  
Kathy Sue Kettering, Kettering  
Carmen Elsye Watts, Garfield Heights  
Barbara Lynn Wayman, Mayfield Heights  
Curtis Wade Weatherbee, Monclova  
Linda Ann Webb, Lorain  
Harold H. Weber, Jr., Greenport, NY  
David Joseph Weisgerber, Lima  
Timothy Thomas Weller, Whitehall  
Roderic Lamont Wheeler, East Cleveland  
Shelly Anne White, Ashland  
Mark David Wigginsworth, Columbus  
Joanne Louise Wilmann, Kettering  
Braden Rex Wilson, Columbus  
Shawn Michael Wintrocht, Cleveland Heights  
Jennifer Ann Wittenmeier, Pickerington  
Meyer William Wolf, Lyndhurst  
Tamara Lee Wood, Troy  
Steven Andrew Worth, Pittsburgh, PA  
Heather Lee Wright, Marion  
Tammy LouAnn Wurthmann, Mansfield  
Wendy Kay Wyss, Kidron  
Philip Lee Yetzer, Columbus  
Tracy Ryan Yoestng, Bellefontaine  
Dawn Elisabeth Young, Toledo  
Matthew Robert Young, Centerville  
Randi Lynn Young, Worthington  
Christine Marie Youngs, Galloway  
Julie Marie Zakib, Warren  
Gregory Zackenoff, Warren  
David Anthony Zele, Euclid  
Cyril Michael Zirnik, Youngstown  
Brad Howard Zimmerman, Westerville  
Kimberly Renee Zimmerman, St. Paris  

Johnny Kipling Caldwell, Xenia  
Michael Andrew Coates, Beavercreek  
James Lewis Coon, Oxford  
Stephen Lee Crites, Jr, Alliance  
Michael Joseph Cronley, Columbus  
Julie Marie DasVarna, Akron  
Paul Michael Davis, Columbus  
Ruth Ann Ebert, Waldo  
John Merritt Ernst, Cincinnati  
Richard Daniel Evans, Randolph, NJ  
Erik Anthony Fisher, Chagrin Falls  
Calandra Diane Frystring, Van Wert  
Gary Thomas Garnet II, Cortland  
Jennifer Gerard, London  
Curtis J. Goodnight, Ceci, PA  
Virginia Ruth Gregg, Cambridge  
Douglas Edward Hammond, Westlake  
Andrew Jay Higgins, Mt. Sterling  
Nancy Eleanor Hill, Columbus  
Karl Lynn Johnson, Beavercreek  
Neal Edward Johnson, Westerville  
Karen Ann Kehres, Troy  
Stephen Louis Keller, Columbus  
Amy Bronwyn Kendall, Salem  
Rhea Michelle Khavazi, Columbus  
Paul Robert Kienk, Columbus  
Karen Marie LaFace, Pittsburgh, PA  
Susanne Louise Larkins, Euclid  
Lehni Mark Lebert, Columbus  
Stephen Todd Lingo, Columbus  
Patrick Dominic Losacco, Columbus  
Robert Martin Magyars, Salem  
Theresa Michelle Martinko, Mentor  
Grady Fareed Mateen, Akron  
Melanie Sue McConnough, Woodsfield  
Marianne McDermott, Uniontown  
Steven Bradley Mick, Worthington  
Tillmon Miller, Sandusky  
Michelle Ann Moore, Grove City  
Bradley Lawrence Moishbarger, Lucasville  
Douglas Marion Mos, St. Clairsville  
William Howard Musolf, Medina  
Philip Alfred Napoli, Lorain  
Todd Matthew Owiet, Milford  
Benjamin Edward Patterson, Dublin  
Timothy David Poland, Columbus  
Michael Paul Salvino, Jr., Leetonia  
Michele Louise Sellig, Canton  
Geoffrey Charles Shere, Toledo  
Cynthia Ann Shelley, Westerburg  
Christopher David Snyder, New Haven, CT  
Kathleen Supelak, Rocky River  
James Fritzhen Taylor, Upper Arlington  
Michael Charles Taylor, Port Clinton  
Randall Stephen Thomas, Stillwater, NY  
Duane Elliot Trabits, Avonmore, PA  
Karen Sue Wenzinger, New Bavaria  
Richard Dane Wright, Groveport  
Guy Edward Zuzak, Fostoria  

School of Journalism

Bachelor of Arts in Journalism

Carl Anthony Albright, Greensburg  
Brian Todd Armentrout, Columbus  
Scott Bradley Arnow, Toledo  
Curt David Avery, Athens  
Bonnie Lynn Bartz, Wadsworth  
Kelly Jo Barnett, West Jefferson  
Liza Kay Baumgartner, Chardon  
Denise Ann Beegman, Worthington  
Stefanie Lynn Belcher, Canton  
Frederick Bermuda, Bossier City, LA  
Julia Lee Bierley, Upper Arlington  
Christopher John Binder, Orient  
Karla Westendorf Bogg, Augusta, GA  
Stacey Michelle Boley, Akron  
Kevin Mark Bonnay, Richmond Heights  
Brian Paul Borterg, Dayton  
Lara Marie Bradley, Columbus  
Ramina Jean Brenneman, Wooster  
Jaw Randall Brown, Medina  
Karen Diane Brown, South Euclid  
Crystal Denise Burnett, Akron  
Chra Korsten Carey, Marion  
Kimberly Gayle Carson, Gratiol  
Cathleen Marie Carter, Caldwell  
Elan Marion Caruso, Rocky River  
Sarah Lorene Christian, Chagrin Falls  
Kari Michelle Cline, Strongsville  
Kimberley Lane Cole, Wadsworth  
Elizabeth E. Collins, Boston, MA  
Brad Edward Crome, Cincinnati  
Lisa Anne Decker, Huron  
Katy Ann Delaney, Parma Heights  
Kurtis Dale Deneen, Clarkson, MI  
Donna Lee Desile, Defiance  
J. Kevin Douglas, Thornville  
Beth Anne Easterday, Delaware  
Ellen Marie Eifert, Worthington  
Lee Ellen Evans, Springfield  
Lisa Marie Fedor, Strongsville  
Bruce William Fehlan, Wellington  
Lisa Ann Fitch, Cincinnati  
Dana Lynn Floor, North Ridgeville  
Gretchen Elaine Fri, Medina  
Crag Alan Friedman, Toledo  
Linnea Rachelle Gayhart, Shelby  
Arthur William Geier II, Beavercreek  
Alexander; Ward George, Long Branch, NJ  
Andrea Kay Germain, Napoleon  
Mary Elizabeth Griffin, Columbus  
Benjamin David Guthrie, Worthington  
Teresa Ann Hackathorn, Norwalk  
Robert Shaw Hackley, Poland  
James Eric Hagely, Upper Arlington  
KepMichiele Marie Harper, Medina  
Carol Ann Hawver, Columbus  
Thomas Jerome Higgins, Amherst  
Robert D. Issac, Sandusky  
Neal Seth Intrater, Toledo  
David Allen Jacobs, Cincinnati  
James Alan Jacobs, Columbus  
J. Carice Jameson, Holmeville  
Pamela Renee Jones, Columbus  
Michele Marie Kanche, Columbus  
Rosean Elizabeth Kelley, Defiance  

Certificate of Study in Latin American Studies

Connie Lynn Byler, Middlefield
Stacey Leigh Lowman, Alliance
Theresa E. Lux, Columbus
Thomas John Massar, Columbus
David Brian Levin, Toledo
Valerie Susan Mader, Silver Lake Village
Scott Clark Morey, Warren
Traci Alison Miller, Reynoldsburg
James Arthur Morrison, Columbus
Richard Thomas McAninch, Columbus
Lisa Bryant William King, Springfield
Barbara Lynne Levine, Bexley
Kathleen Rowe Montag, Westerville
Meredith Ann Melragon, Williamsfield
Marjorie Lynn Kochan, Avon Lake
Renee Mast, Canton
Michael Anthony Melaragno, Grandview
Michele Lynn Outlaw, Cold Spring, ME
Jennifer Lynn Rusnak, Mayfield Heights
Beth Ellen Ross, Beachwood
Holly Elizabeth Sauer, Circleville
Jeffrey Shinault Day, Columbus
Jeffrey Alsina Black, West Milton
Joan Lynne Wright, Xenia
Lisa Anne Widunas, Findlay
Joan Lynne Wright, Xenia
Wendy Erin Worth, Columbus
Kristin Marie Wade, Newark
Sherry Marie Riley, Zanesville
Joan Lynne Wright, Xenia
Lisa Ann Vercaltee, Columbus
Lisa Lynn Schminke, Columbus
Tracey Marie Riley, Zanesville
Carol Jane Rice Lewis, Columbus
Mary Beth Richardson, North Olmsted
Tracy Marie Riley, Zanesville
Bryan McNeal, Springfield
Jeffrey Albert Reichert, Goshen
David Gregory Arnold, Tipp City
Michael Louis Gastier, Milan
Mary Rose Schornak, Jamestown
Nancy Yvonne Secrest, Caldwell
Kimberly Ann Scrapec, Medina
Zrinka Katherine Slat, Columbus
Thomas John Sleno, Jr., Sandusky
Randy Jay Somerville, Columbus
Scott Vincent Spatiano, Westerville
Laura Beth Stiles, Marysville
Lora Jean Stilke, Newbury
Joanne Elizabeth Stokes, Jefferson
Todd Edward Stoll, Marshallville
Richard Bradle Swank, Lewisburg

College of Agriculture
Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture
Daniel Wesley Aldrich, Solon
Javelyn Renee Baylis, Cleveland
Melanie Lee Bue, Mt. Vernon
Paul Franklin Best, North Canton
Mark Stephen Bischel, New Philadelphia
Benjamin Paul Black, West Milton
Jessie Lynn Born, Amherst
Robert Arthur Bouic, Ostrander
Dana Brenzy, State College, PA
Rebecca Joan Briggs, Columbus
Deborah Lynn Brown, Dublin
Michael Alton Bullock, Circleville
Heather Elizabeth Burrell, Fresno
Bruce Edward Burton, Huber Heights
Connie Lynn Byler, Middlefield
Robert Francis Carle, Circleville
Kevin Scott Carter, Gallipolis
Janet Leigh Cassidy, Massillon
Paige Lance Chandler, Calion
Lauren Jean Child, Columbus
Christopher William Cole, Twinsburg
Russell Thomas Colman, Williamsfield
Douglas William Conger, Lima
Gregory Allen Conrad, New Holland
Charles Matthew Dahse, Amesville
Jeffrey Shinnault Day, Columbus
James Michael DePrince, Ashatabula
Debora Lynn Demmitt, Troy
Keith Richard Dickson, Kenton
Kevin John Doseck, Jackson Center
Darin Lee Draeger, Lindsey
John Edmund Duckworth, Marietta
David Chris Duvall, Hubbard
Carolyn Sue Emmons, Fayette
Michael David Engelhardt, Columbus
Maureen Ann Fagan, Dublin
Andrew Allan Farley, Jackson
Michael James Fennig, Coldwater
Daniel Stephen Franke, Chagrin Falls
Sandra Ann Fravel, Springfield
Julie Kathleen Friesen, Cincinnati
Rebecca Stirling Gardner, Gates Mills
Michael Louis Gastier, Milan
Marc Thomas Gedert, Currituck
Curt Allen Geron, Springfield
Brant Eric Giese, Brecksville
Joan Eileen Gish, North Lawrence
Deborah Jean Clauer, Loudonville
Michael Jones Guest, Kent
Kristin Basel Guthrie, Marion
Kristen Hardke, Columbus
Catherine Ann Hartman, Parma
Darcy Ann Hartman, Berlin Heights
Jill Renee Hayes, Worthington
Willem Edward Henke, Brunswick
Timothy David Hennessy, Bellefontaine
David Russell Hermes, Tipp City
Charles Stephen Hess, Cincinnati
Stuart Jay Hess, Urbana
James Allen Hill, Westerville
Julie Kay Hoover, Shelby
Robert Hostetler, Columbus
Mark Edward House, Camden
Mary Jane Johnson, Wooster
Bill Edwin Johnson, Pennsylvania
Robert N. Jones, Huron
Tonia Marie Jones, Lorain
Larry Alan Keister, Springfield
Jay Allen Kill, St. Marys
Teri Ann Kraus, Medina
Dean John Krukemeyer, Pembridge
Mary Jeanette Lakin, Thompson
Ronald Allen Leach, Lynchburg
Robert C. Little, Delaware
Kimber Laurie MacKenzie, Columbus
William Douglas Mainzer, Norwalk
Mark Mars, Columbus
Harold Jeffrey Martin, Millersport
Keith D. McGoldrick, Hamilton
Gary Bryan McNiel, Springfield
Brian David Miller, Findlay
Dale Edward Minyo, Cumberland
James Carson Mitchell, Plain City
Steven Samuel Moore, Leesburg
William Thomas Moorhead, Cincinnati
John Christopher Moses, Columbus
Mohamad Ahmad Mourad, Columbus
Robert Wayne Mulligan, Jr.

Little Hocking
Joel William Pankowski, Ashtabula
Kenneth Neil Parrott, Lexington
Todd Lawrence Pennington, Wauseon
Ann Elizabeth Petersen, Chesterland
Brian Alan Pollock, Columbus
Kristin Ann Ramseyer, Millersburg
Jett Alan Regula, Bellefontaine
Jeffrey Albert Reichert, Goshen
Todd R. Rice, Columbus
Kara Lee Robertson, Trenton
Dana Lynn Hhlinsel, Cincinnati
Mary Rose Schornak, Jamestown
Nancy Yvonne Secrest, Caldwell
Kimberly Ann Skrabec, Medina
Zrinka Katherine Slat, Columbus
Thomas John Sleno, Jr., Sandusky
Randy Jay Somerville, Columbus
Scott Vincent Spatiano, Westerville
Laura Beth Stiles, Marysville
Lora Jean Stilke, Newbury
Joanne Elizabeth Stokes, Jefferson
Todd Edward Stoll, Marshallville
Richard Bradle Swank, Lewisburg
Dwight Raymond Tingley, Mt. Gilead
William George Uptegraph, Jr., New Philadelphia
Jeffrey L. Volkert, Hicksville
Daniel Dale Walker, Lynchburg
Kirk Georges Walker, New Vienna
Lisa Kay Wallace, Worthington
Barry Wallace Ward, Urbana
Edward Brian Warner, Columbus
Diane Sue Wars, Perrysburg
Scott McClelland Weaver, Cleveland
Mary Elizabeth Wellin, New Philadelphia
Gregory Alan Wells, Marysville
Joseph John Wells, New Philadelphia
Jeffrey School of Natural Resources
Steven & L. Ward
Tracey LeeAnne Britton, Columbus
Emily Rose Kiracofe, Warren
Bachelor of Science in Nutrition
John Kevin Bailey, Marysville
Mark Anthony Russell, West Jefferson

School of Natural Resources

Bachelor of Science in Nutrition
John Kevin Bailey, Marysville
Mark Anthony Russell, West Jefferson

Bachelor of Science in Natural Resources
Troy Alan Abram, Columbus
Brenda Allen Adams, Toledo
Steven Edward Ahlbeck, Columbus
Kevin Charles Asenheimer, Bucyrus
Juliet Wyleen Ballinger, Cincinnati
John Farrell Bamman, Sylvania
Steven Christopher Barry, Lima
Craig Dean Brechbuhl, Canton
Debra S.Britton, Columbus
Jeffrey Russell Bryden, Kipton
Martin Patrick Cantwell, Columbus
Timothy James Cooper, Columbus
Patricia Ann DeGraff, Pickerington
Margaret Dill, Wickliffe
Denis Michael Dooley, Cincinnati
Kendra Sue Eberly, Cleveland Heights
Laurie Ann Gallagher, Columbus
Matthew John Goodwin, New Philadelphia
Allen Steven Grass, Lorain
Lucinda Gay Harper, Aiken, SC
Brian Hugh Harroff, Galion
Joseph John Hassman, Hillsboro
Cynthia Lee Hawkins, Medina
Ronald Allen Joseph, Columbia Station
Glenn Daniel Kluger, Lima
Kenneth Joseph Keukla, Mansfield
Allen Eugene Lea, Ashland
William Earle Mack, Collins
Craig Thomas Mallison, Bellbrook
Douglas Michael May, Copley
Craig Scott McWherter, Delaware
Andrew J. Montoney, Orient
Dennis Lee Morehaut, Canal Winchester
Scott Taylor Morris, Worthington
Jeffrey Mowka, Toledo
Matthew Lee Noziger, Wauseon
Yetty Marie Pfeiffer, Greenville
Elizabeth Margaret Petree, Columbus
Allan Brant Rowland, Jackson
Michael Joseph Schurman, Dayton
Jeffery Lynn Shields, Covington
Donald William Simpson, Cincinnati
Carol Ann Smith, Upper Arlington
David Allen Smith, Fostoria
Michael Richard Thomas, Brecksville
Christopher Waller, Brunswick
Dale Wayne Warner II, Wooster
Stephanie Jo Williams, Elyria
Leslie Ann Winner, Coldwater
Dave John Zacharias, West Salem

Agricultural Technical Institute — Wooster

Associate in Applied Science
Bruce William Basinger, Dalton
Stephen Stanley Beer, Mansfield
Michael G. Blau, Euclid
James Leroy Borton, West Salem
Michael Dean Bowman, Creston
Scott Anthony Briggs, East Sparta
Kan Ruth Butts, Coshocton
Jeffrey Robert Carson, Rocky River
Gary Howard Chambers, Graytown
Theree Ann Chapman, Macedonia
James Harding Christ, Avon Lake
Robert Norman Cowie, Jr., North Canton
Gerald W. Cox, Hubbard
Christopher Lee Davis, Medina
William Michael Davis, Akron
Timothy James Dunn, Zanesville
Scott Alan Eberly, Orrville
Loretta L. Edwards, Sidney
Craig Mitchell Felton, North Royalton
Charles Christopher Finton, New Philadelphia
David Lee Fowles, Medina
Eric William Freg, Valley City
Douglas Gerald Goodman, Cardington
Micaiah Timothy Hartong, Carrollton
Frederick Nicholas Herget IV, Ringsgold, PA
Matt Ryan Hewitt, Apple Creek
Michael Gordon Hodgin, Mentor
Nancy A. Hudson, Madison
Carolyn Marie Immel, Burbank
Troy Scott Ingle, Fletcher

Michael Lee James, Vienna
Barbara Jean Jeffery, Munhall, PA
Shelby Ann Kel, Cleveland
Dennis Mark Kover, Warren
Amy Jo Leskey, Glenmont, PA
Matthew James Lesko, Salem
Ann Denise Libben, Port Clinton
Howard Chester Loel III, Chillicothe
David Edwin Lytle, Litchfield
Robert Bryan McMahan, Richwood
Henry Albert Michael, Jr., Diamond
John Wallace Miller, Jr., Dover
Michael Ryan Miller, Rittman
Pamela Sue Mitchell, Zanesville
Jeffrey Earl Moser, Wooster
Heather Ann Moy, Toledo
Stacey Lynne Moyer, Shreve
Shannon Marie Mullins, Munroe Falls
Dean Edward Myers, Carey
Mark Douglas Nienczyk, Apple Creek
Donna Marie Noyes, Wooster
Alice Elizabeth Orchard, Danville
Scott Michael Pfeiffer, Ashville
Christine Leigh Probasco, Lancaster
Randy Kay Raber, New Philadelphia
Jeffrey Robert Rak, Strongsville
Elizabeth Elaine Rick, East Canton
Scott Thomas Ripley, New Philadelphia
Sheila Marie Riner, Barnesville
James Britton Roberts, Lyndhurst
Albert Matthew Roth, Brimfield
Kenneth Raymond Schuck, Ashland
Brian Allen Schwartz, St. Mary's
Kenneth Alan Schwartz, Cincinnati
Robert Steven Shircliff, Mogadore
Daniel John Smith, Wooster
Richard Bradlee Swank, Worthington
Elaine Susan Swartz, Salem
Jason Andrew Swartz, Prospect
Eric Allen Thoren, Racine
Curtis Dale Tinney, Orrville
Douglas Ernest Vasiluk, Parma
Charles Paul Wagner, Celina
David Lee Wagner, New Bethlehem, PA
Ross Kerlin Wagner, Sidney
Steven Paul Weaver, Dalton
Bruce Allen Wierzbicki, Northfield
Lisa Ann Wiper, Stow
James Joseph Woods, Columbus
Maria Antionette Zampini, Painesville
James Anthony Zubryd, Irwin, PA
Michael Ray Zucker, Marion

College of Business
Dean: H. Justin Davidson

Bachelor of Science in Business Administration
Jan Allen Ackley, Zanesville
Victoria Lynne Adams, Columbus
Sharon Seela Addanki, Columbus
James R. Adams, Columbus
Rodney L. Adkins, West Carrollton
Michelle A. Agresta, Steubenville
Mónica Maria Aguirre, Columbus
Christopher Michael Frisbie, Madison
Robert Scott Frischke, Huber Heights
Patricia Joy Freyland, Cincinnati
Dana Leigh Frydman, Dayton
Mara Jill Frydman, Dayton
Sheryl Diane Fuller, Columbus
Jimmie Frank Fumo II, Marion
Jennifer Lynn Gabbard, Centererville
Arvindra Singh Gakh, Chicago, IL
Joseph R. Gallagher, Sandusky
James John Gardikes, Worthington
Gregory Alan Gayer, Gahanna
David James Gaynor, St. Clairsville
John Edward Geiger, Westerville
Michael Andrew Gencur, Lorain
Jay Alexander Gentner, Berea
Marcia Elaine Gibbons, Pickerington
David Evan Gilbert, South Euclid
George F. Gillespie, Columbus
Russell Alan Gillis, Westerville
Thomas E. Goard, Huber Heights
Roger Douglas Goddard, Westerville
Todd Michael Goehring, Worthington
Daniel Scott Gолован, Orange Village
Scott B. Gooch, Sydney, Australia
Nanette R. Goodfellow, Berea
Gregory Alan Gorespe, Warren
James Anthony Gorrill, Beavercreek
Susan Ann Goryanec, Strongsville
Ronald Peter Grabenstetter, Valley City
Eric J. Grasfle, Greenwich
Jillian Greenberg, Columbus
Brian Richard Greene, Beachwood
Tami Sue Greenstein, Solon
Christine M. Gregory, Willoughby
Kinnerly E. Grimes, Columbus
Amy Christine Grissom, Stow
Gary Philip Grivacos, Gahanna
Elizabeth Christine Grund, Mentor
Samuel Joseph Guagenti II, Lima
Lacinda Lynn Gulley, Winchester
Miike Gungor, Upper Arlington
Christopher J. F. Gutierrez, Canton
Jean Marie Haban, Lancaster
William Edward Hageman, Lima
Robert Erich Hahn, Westlake
Michael Karl Halter, Columbus
Leon Harbar, Jr., Youngstown, NJ
Hakan Harman, Columbus
Daniel Louis Harmon, Cincinnati
George Jeffrey Harper, Chillicothe
Paige Anne Harper, Jamestown
Robert Andrew Harris, Springfield
Emily Sue Hart, Kenton
Jeffrey Brian Hart, Heath
UI D. Hartwig, Fort Lauderdale, FL
Mary Ann Hasara, Brook Park
Kristin Mae Haus, Rochester, NY
Elliott Lee Hawkes II, Williamstown
Matthew John Held, Delaware
Lori Kay Hemming, St. Henry
Edward Dale Hendershot, Akron
Shaun Stephen Henderson, Delaware
Heather Lee Henning, Centererville
Jill H. Henning, Bowling Green
Kimberly Ann Hensley, Dayton
Joan Marie Herman, Cincinnati
Wendi N. Higgins, Centerburg
Scott Karl Hiller, New Washington
Patricia Ann Hill, Columbus
Michael Lawrence Hilthausen, Columbus
James Christopher Hobbs, Fairborn
Mary Beth Hoffman, Bellevue
Karen Ann Hohenstein, Centererville
Kent R. Hollinden, Dayton
Melinda Lee Holt, Dayton
Erich Ernest Horn, Akron
Harold M. Horn, Pittsburgh, PA
David Eric Horner, Mansfield
Philip George Hotz, Fremont
David C. House, Alliance
David Mark Hubble, Columbus
Lynne Michel Hughes, Westerville
Debra Ann Hunt, Cuyahoga Falls
Michelle N. Hurt, Circleville
Anthony Richard Inekep, Urbana
Mark Jay Irvine, Columbus
Linda Ann Jager, Solon
Jan Marie Jameson, Columbus
Pamela Sue J Karsten, Columbus
Walter John Jarvisiewicz, Toledo
Jacqueline D. Jason, Cincinnati
Mary B. John, Dayton
Donna Rae John, Medina
John Todd Jordan, Columbus
Gary Evan Josen, Sandusky
Laurel Helene Juola, Wayzata, MN
Faith Denise Jurczyk, Columbus
Kenneth Edward Kachic, Columbus
Martin Ronald Kaczmarek, Northfield
John Peter Kane, Strongsville
Christopher Michael Karakis, Copley
Daniel J. Karlis, Cleveland
Julie Diane Katz, Worthington
Jeffrey Scott Keckley, Circleville
Patrick Michael Kehn, Euclid
Maria R. Keller, Charleston, WV
Roger W. Keller, Willard
Christopher Sean Kelly, Delaware
Thomas Michael Kelly, Toledo
Kelly Lynn Keogh, Lexington
Jeffrey Todd Kent, Pepper Pike
Elizabeth S. Keylor, Fairborn
Mikhail Fars Khalili, Detroit, MI
Lisa June Kikky, Vandalia
Won Jin Kim, Seoul, Korea
Joseph Donald King, Akron
Deniz Murat Kiral, Springfield
David Robert Kirkey, Columbus
Steven Ray Klehm, Marion
Karen K. Klunk, Columbus
Jeffrey Patrick Knapek, Celina
John T. Kneiss, Avon Lake
Patrick James Knott, Columbus
Christopher John Kocak, Westford, MA
Pik Lu Kok, Kuala Lumpur, Malaysia
Anthie Marie Kondoleon, Warren
Michael Andrew Kosia, Chagrin Falls
Kristine Romine Kotten, Zanesville
Stuart Warren Krantz, Beachwood
John Francis Kronk, Cincinnati
Leslie Anne Kruzel, McMurray, PA
Jonathan Alan Kryder, Napoleon
Mark Edward Kuchemir, Grafton
Lisa M. Kulicke, Bloomington, IL
Diane Louise Kumpf, North Canton
Thaddeus J. Kwiatkowski, Columbus
Richard Paul LaGore, Fishers, IN

Thomas H. Langshaw III, Columbus
Rebecca Susan Langston, Columbus
Alia Lantzy, Beachwood
Angel Lara, Mantua
Scott Kevin Larkey, Berea
John Philip Lashevy, Mansfield
Paul J. Leanza, Worthington
Launi A. Leeper, Euclid
Shawn Michael Lefavour, Cleveland Heights
Michelle L. Lefi, Akron
Mark William Leffel, Columbus
Joy Denise Lehman, Reynoldsburg
Joseph Allen Lehnter, St. Clairsville
Kimberly Ann Lehnon, Dayton
Peter Edward Lesko, Westlake
Budiarto Lesmana, Bogor, Indonesia
Christopher John Leupp, Sylvania
Deborah Lynn Levitt, Beachwood
Aaron Kenneth Linick, Strongsville
Timothy T. McKay, Mansfield
David Todd Loesch, Cincinnati
John Paul Long, Columbus
Susan Kay Longshore, Norton
Michael John Lorenz, Boardman
Elizabeth Grace Lovell, Circleville
Lyle T. Lovgren, North Canton
Shirzane Elizabeth Lowry, Centererville
Deanna Jane Lupo, Columbus
Brent Ross Lykins, Berea
J Eric Mackenbach, Columbus
James Colin MacKillop, Sylvania
Dartin John Madsen, Findlay
Mary Christine Magni, Chardon
Tejinder Malik, Barberton
Blaise E. Marcucci, Steubenville
Tamara M. Margert, Suffield
Abby Sharon Margolis, Cleveland Heights
Allen R. Marka, Toledo
Stephen Paul Marohn, Gahanna
Domenic Anthony Martelli, Newburgh, NY
David Christopher Martin, Columbus
James Edward Martin, Columbus
Brian Patrick Matuschak, Canfield
Jeffrey A. Marva, Willoughby
James D. Mason, Lima
Deborah Lynn Matson, Cincinnati
Kelly JoAnne Maurer, Newark
Paula A. May, Columbus
Kimberly Kay Mayo, Beachwood
W. Scott McAfee, Belpre
John Patrick McBride, Sheffield Lake
Timothy Joseph McCabe, Brookville, MD
Robert Matthew McCann, Worthington
Beth Ann McCarthy, Sandusky
Thomas Joseph MaCaulay, Columbus
Dale E. McClain, Marion
Tracy Lynn McCrory, Milan
Michael T. McKee, Cleveland
Melissa Lee McDaniel, Naperville, IL
Marcy Kaye McDonald, Columbus
Brian Keith Mcgee, Oregon
Christina John Meineke, Pickerington
Regan P. McHale, Stow
David Matthew McKee, Beavercreek
Brian Albert McMahan, Lorain
Kelli Ann McMullen, Youngstown
Sandy Lynn Toth, Akron
Bao Quoc Tran, Columbus
Michelle Renee Tribble, Willoughby
Michelle Lynn Tripp, Coshocton
Timothy Michael Trotz, Zanesville
Robert Allen Trout, Columbus
Daniel Craig Trounser, Worthington
Richard Todd Trump, Carrollton
Barbara Jean Turner, Manassas, VA
Joseph Bernard Turner, Fort Loramie
Jack Manuel Tzagournis, Columbus
Richard Brent Utter, Lima
Anthony F. Valencic, Euclid
Michael William Valenteen, Springfield
Kimberly Anne Valentine, Columbus
Sherry Jean Van Buskirk, Kenton
David Robert Van Curen, Morland Hills
Joseph Thomas Van Horn, Columbus
Katherine Marie Vack, Mansfield
Alfredo R. Villar, Shelby
Eric Michael Vinson, Mansfield
Joyce Marie Vogt, Powell
Patrick T. Vonderhaar, Cincinnati
Marc Andrew Vondran, Lima
Chad J. Wadwa, Upper Arlington
Connie Susan Wagner, Celina
Laura Ann Walchli, Springfield
Elizabeth Anne Walker, Cincinnati
Ronald Edmund Walker, Jr., Marion
Roderick Kent Wallace, Cincinnati
Christopher Paul Walsh, Columbus
Edward J. Walsh, Powell
April Ward, Columbus
Joseph David Ward, Chagrin Falls
Timothy Alan Weaver, Columbus
Michael Patrick Weiland, Mansfield
Thomas George Weinstein, Rochester, NY
Steven Christopher Wells, Mt. Vernon
Clinton Robert Werthmann, Columbus
Valerie Yvette Wesley, Winterville
Jacqueline Kay Wessel, Mansfield
James M. Westfall, Akron
Denise Ann Wetzel, Mentor
Robert Shawn Whay, Lyndhurst
Ross Martin Wheeler, Cincinnati
Wendy Kathleen White, Upper Arlington
Melinda Dawn Whittington, Massillon
Edward G. Wiculka, Lorain
Robert Craig Wiesnemeyer II, Wakoneta
Susan Kaye Wilcox, Willoughby
Edward C. Wildey, New Richmond
Michael D. Wiley, Zanesville
Daniel Patrick Wilhelm, Port Huron, MI
John Lawrence Wilkes III, Columbus
Bradley James Will, Toledo
Dwight B. Wilson, Akron
Eric John Wilson, St. Marys
Steven L. Wilson, Hinckley
William George Wilson, Columbus
Scott Alan Winger, Stow
Maribeth Winten, Newark
Michael James Wiseley, Hilliard
Scott Allen Wolf, Girard
Natalie Jo Wollinger, Mansfield
Matthew William Woford, Columbus
Chi Fai Wong, Stow
Anton Albert Wood, Lima
Daniel Keith Workman, Doylestown
Jennifer Michele Wonshik, Canton
Reginald T. Worthen, Cleveland
Scott Alan Wright, Eaton
Robert William Yarrington, Columbus
Lian Wah Yeah, Kuala Lumpur, Malaysia
Dorothea Yoakum, Cologne, West Germany
Brenda Jean Yost, Scio
Christopher J. Yost, Lincoln, NE
Theresa Annette Young, Hudson
Vicki Ann Youngs, Toledo
Susan Marie Zaworski, Avon Lake
Jill Ann Zehren, Cincinnati
Craig Allen Zeroki, Youngstown
Christopher Zgynecik, Maple Heights
David Bruce Zinsmeister, Westerville
Kimberly Anne Zornan, Cleveland
Marjana D. Zupcsan, Madison

College of Dentistry
Dean: William R. Wallace

Doctor of Dental Surgery
Leslie Caroline Allen, Columbus
B.S. (University of Toronto)
David Braxton Atkins, Springfield
B.A. (Otterbein College)
Joseph Scott Atkins, Columbus
B.A. (University of Toledo)
Robert John Balcar, Toledo
B.S. (John Carroll University)
Scott Robert Bankhead, Columbus
B.S.
Debbie Ann Batcha, Columbus
Martin Lee Baumgardner, Akron
B.A.
Monica Elizabeth Bednar, Columbus
B.S.
David Andrew Bennett, Columbus
B.S.
Susan Marie Brennan, Gahanna
Michael John Brinch, Wauseon
B.A. (University of Toledo)
Julie Anne Butler, Hillboro
B.A. (Miami University)
Alexander Robert Clemente, Upper Arlington
B.S. (Youngstown State University)
Timothy Wayne Conley, Beaver
Christopher Michael Connell, Mentor
B.S.
Thomas George Coreno, Rocky River
B.S. (University of Cincinnati)
Thomas Matthew Cox, Cincinnati
B.S. (University of Cincinnati)
Martin Bryant Cramble, Ashtabula
B.S. (Bowling Green State University)
Moshe Davidovich, Columbus
B.A. (University of Pennsylvania)
Lisa Ann Davis, Columbus
B.A.
Todd Christopher Davis, Columbus
Julie Ann Dugan, Columbus
B.A. (Miami University)
Bruce Allen Dye, Dresden
B.A.
Christopher James Ebert, Willard
B.A. (Miami University)
Charles Robert Fahscke, Celina
B.A. (Capital University)
Patrick Oscar Flannery, Columbus
B.S.
John Robert Forche, Toledo
B.S.
Mark Alan Ford, Columbus
B.S. (Kent State University)
James D. Frilling, Columbus
B.A. (University of Toledo)
Kevin William Fryer, Columbus
B.S. (Purdue University)
Frederick Julius Gehrze, Jr., Highland Heights
B.A. (Case Western Reserve University)
Gregory Harper Grady, Grandview Heights
B.A. (University of Notre Dame)
Hans Peter Guter, Columbus
B.S.
Klaus Dieter Guter, Columbus
B.S.
Eric Joseph Haas, Columbus
B.S. (Loyola University)
Vahid G. Highghigh, Columbus
B.S.E.E.
Lawrence James Hannan, Columbus
B.S. (University of Cincinnati)
Christopher John Harter, Bay Village
B.S. (John Carroll University)

Shabbir Muhammad Hashim, Columbus
B.S.

Gregory Paul Heintschel, Worthington
B.A. (University of Toledo)

Alan Reed Heller, Columbus
B.A. (University of Maryland)

John Andrew Helmkaic, Akron

William Lee Huskey, Columbus

James Thomas Hutta, Columbus
B.S.

Kyle Randal Jackson, Columbus
B.A. (University of Toledo)

Terri Lynn Kaner, Warren
B.A. (University of Toledo)

Daniel Kantarovich, Columbus
B.S.

Charles Jed Kesler, Gahanna
B.S. (Youngstown State University)

James Kevin Killen, San Bruno, CA
B.S. (University of California, Davis)

Young S. Kim, Columbus
B.A.

James Edward Kirkpatrick III, Columbus
B.S. (University of Washington)

John Dean Koutras, Canton
B.S.

Michael Alan Krummnaier, Huber Heights
B.S. (University of Dayton)

Steven Arthur Lang, Columbus
B.S. (University of Cincinnati)

Christof Immo Horst Langer, Columbus
B.A. (Miami University)

Michael Joseph Leahy, Worthington

Michael Robert Leech, Mansfield

Lori Ann Little, Ashville

Jeffrey Charles Logan, Kinsman

Randall Lee Lonshrouch, Columbus
B.S.Ch.E.

Felix Omar Marchal, Columbus
B.S. (University of Puerto Rico)

Andrew Joseph Mark, Columbus
B.S. (Xavier University)

Timothy Patrick McConnell, Massillon
B.A. (Miami University)

Michael A. McGinnis, Columbus

Richard Alan Michney, Columbus
B.A. (University of Toledo)

Jeffrey Scott Miller, Fairfield
B.A. (Miami University)

Scott Wilbur Miller, Wooster
B.A. (Kenyon College)

Timothy John Miller, Columbus
B.S. (John Carroll University)

Anton Gregory Cyril Milo, Columbus
B.A. (Wittenberg University)

Ellen G. Moore, Crooksville

Donald Alan Morgan, Columbus
B.A. (Cedarville College)

Kent Neil Nicklas, Berea
B.A. (Miami University)

Dominic Joseph Pannunzio, Columbus
B.S.

Kurt Alan Pesta, Mingo Junction
B.S.

Jason Alfred Phillips, Cincinnati
B.A. (Miami University)

Leigh Ann Randolph Pickenpaugh, Hilliard
B.S.Nat.Res.

Michael Edward Poth, Oxford
B.A. (Miami University)

John William Pruitt, Columbus
B.A. (Depauw University)

Thomas Steven Rankin, Columbus
B.A. (Miami University)

William Edward Rentz, Columbus

Joseph Robert Ryan, Columbus
B.S. (Ohio Dominican College)

Lawrence J. Salata, Columbus
B.A. (College of Wooster)

Carl William Schafer, Lima
B.S.

Eric Shawn Schikowski, Columbus
B.S. (John Carroll University)

Scott Dana Schumann, Columbus
B.S.

Michelle Lynn Schuster-Taylor, Euclid
B.S. (Case Western Reserve University)

Kim Leslie Shaw, Columbus
B.S.

Debra Marlene Shugarman, Toledo

Peter Nicholas Stamatis, Lorain

Clifford John Steinle, Cincinnati

Todd Eugene Stoner, Columbus
B.A. (Kenyon College)

Debra Kay Ray Swearingen, Westerville

Samuel Edward Taylor, West Unity

Daniel Joseph Vogt, Hamilton
B.S.

Christopher John Waliniski, Columbus

Gregory John Weigertber, Columbus
B.S. (Xavier University)

Clark Conner White III, Worthington
B.A. (Wittenberg University)

Matthew Ray Yerkey, Columbus

Bachelor of Science in Dental Hygiene

Brenda Lynn Behrond, Rocky River

Susan Renee Brown, Parma

Sharon Rose Carlson, Westerville

Kristen Jane Cross, Shelby

Lorene Marie Grabmeier, Toledo

Valerie Anne Maseck, Brstsville

Julie Nelson Mick, Somerset

Michele JoJette Moser, Columbus

Connie Ann Mullins, Columbus

Neda Naazizadeh, Columbus

Lisa Christine Petrov, Elyria

Kimberly Ann Sabec, North Olmsted

Leigh Ann Sanders, Worthington

Susan René Webster, Mansfield

Lisa Ann Zukovs, Lancaster

Certificate of Graduate Dental Hygienist

Mary Roberts Betts, Circleville

Joyce Ann Buchenig, Youngstown

Michelle Renee Hicks, Portsmouth

Elizabeth Marie Kurkat, Naples, FL

Andrea Lynn Moskerintz, Canal Winchester

Alisa Sael Shapiro, Cincinnati

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Judith Marie Abboud, Dayton

Rebecca Ann Adams, Centerville

Aggelici A. Agganis, Lancaster
Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering
Dean: Donald D. Glower

Bachelor of Science in Aeronautical and Astronautical Engineering

Steven Carl Aaseff, Independence
Gregory Alan Bainschman, Lexington
David Scott Blum, Columbus
Darin Lee Boesch, Gahanna
James Edward Bruns, Cincinnati
Peter Joseph Buchanan, Elyria
John David Cherry, Findlay
William Joseph Collet, Fostoria
Richard Allen Cowley, Medina
James Raymond DeBonis, Hubbard
Mark Anthony Detelich, Brookfield
Carl Dean Dever, Bucyrus
Timothy Joseph Dienst, Delaware
Leonard Paul Diludovico, Jr., Elyria
Leonard Andrew Dudzinski, Strongsville
Ronald Steven Frieds, Berkey
Stelan Eliot Froelich, Shaker Heights
Scott Gregory Gramling, Columbus
Dennis Mark Grieshop, Yorkshire
Scott Randall Guisas, Austin, TX
Bryan Dean Haas, Midland, MI
Michael Allen Hall, Toledo
David William Herron, Jr., Toledo
James Michael Higgins, Pataskala
Christopher Todd Hunt, Wooster
Karyn Michele Igw, Knoxviile, TN
James Edward Kamenc, Oregon
Eric Edward Kibler, Ravenna
Laura Ann Kot, Columbus
Robert Michael Latin, Harrisburg, PA
Christopher Douglas Lykins, Fairborn
Nicolo Filippo Machi, Solon
Timothy Rachel Mack, Collins
Jeffrey Craig Masters, Columbus
John Thomas Meeks, Jr., Columbus
Rafic A. Mouazza, Jiy, Lebanon
Kenneth Edward Mulh, Mentor
James Andrew Negno, Youngstown
Dan Than Nguyen, Columbus
Andrew Donald Orben, Wadsworth

Martin Edward Piccus, Orange
John Alexander Piaga, Parma
Thomas North Ramsay, San Diego, CA
Randall Brooks Ravis, Amherst
Mark J. Ringer, Strongsville
Ryan Scott Rorick, Elyria
Kent Alexander Ruffing, Bellevue, FL
Stephen Paul Singer, St. Clairsville
Christopher Thomas Sledz, Sterling Heights, MI
James William Smolko, Medina
Michael Joseph Stalkamp, Beavercreek
Gregory Todd Steinmetz, Cincinnati
William Ronald Stevens, New Albany
David Eldo Taylor, Toledo
Robert John Theiss, North Olmsted
Daniela Luisa Trapani, Greenbeoro, NC
Thomas William Urase, Maple Heights
Steven Michael Vehrs, Addison, IL
Mercedes A. Vizueta, New York, NY
Kathleen Ann Watson, Lorain
Jason Fredrick Whitney, Stow
Anthony Carl Wiederkehr, Charlotte, NY
Thomas DeWitt Woodrow, Columbus
James Patrick Wooster, Seattle, WA
Roger David Wuerfled, Perryopolis
Stephen John Zabonoski, Westlake
Brian O. Zimmerman, Strongsville

Bachelor of Science in Agricultural Engineering

Leo Brandon Conkel, Jr., Reynoldsburg
Nazih Wahib Fady, Tripoli, Lebanon
Thomas Brian Feldman, Hamilton
Robert George Hentz, Cincinnati
James Todd Hughes, Mt. Vernon
Russell Byron Knox, Oregon
John Harvey Peterson, Washington Court House
Rodney James Tornes, Waterford
Ronald Thomas Trivisonno, Galena

Bachelor of Science in Aviation

Jimmy Bitt, Middleburg Heights
Christopher Nelson Conn, Avon Lake
Robert Lawrence Garvin, Columbus
Paul Andrew Kienzle, Kettering
Bryan Allen Konst, Bellevue
Thomas Alan Lurneuen, North Olmsted
Terrence Earle Mack, Collins
Timothy Alan McLaughlin, Norton
David Andrew Meechan, Columbus
Andrew Clayton Quirt, Quiet, NY

Bachelor of Science in Ceramic Engineering

Kelly Suzanne Baker, Clinton
Ray Virgil Baker, Powellton Point
Michael Patrick Czacki, Brunswick
Stephen Guy Callahan, Powellton Point
Angela Renee Cruz, Bluffon, MI
Harjanto Hardjani, Indramayu, Indonesia
Alan Lee Hercess, Liberty, MO

Albert Carl McDonald, Jr., Columbus
Mary Katherine Meyer, Delaware
Patrick Francis Rego, Hudson
Barry Scott Ringstrom, Fairfield
Genn Daniene Waddell, Galion
Theodore Allen Weger, Elyrta
Julius Alfred Zari, Reynoldsburg

Bachelor of Science in Chemical Engineering

Mark Wesley Anderson, Circleville
Craig Bernard Barry, Elyria
Linda Jean Broadbelt, Warren
Christopher Joseph Caudel, Pecora, IL
Elizabeth Jennifer Craig, Tipp City
Katerina Milie Eftimoff, Columbus
Liza Jo Fletcher, Katy, TX
Julie Ann Foggary, Columbus
James Andrew Foull, Pataskala
Brian Keith Furlong, Mt. Prospect, IL
Barton J. Givens, Oregon
Johanna Ellen Griffsche, Bedford Heights
Keith James Grover, Worthington
Laura Anne Hance, Perrysburg
Eric John Hrbac, Oregon
Walter George Macesich, Parma
Stephen Robert Phillips, Tiffin
Michael Joseph Pishukla, Mayfield Heights
Robert Ryan Proctor, East Liverpool
Amy Joyce Reynolds, Dublin
Brian Lynn Smith, Barberton
Jonathan Martin Vinson, Mentor

Bachelor of Science in Civil Engineering

Kevin Ray Ackley, Mt. Orab
Rick Joseph Amlin, Columbus
James Christopher Avery, Clyde
Ahlen Ben Othman, Tunis, Tunisia
Robert Andrew Bosworth, Pickerington
Todd Warren Boyer, Zanesville
Brian Sean Casey, Columbus
Jeffrey Robert Coffey, Perrysburg
Bruce Fraser, Parma
Kenneth Charles Graffe, Solon
Adofo A. Guzman, Columbus
Malcolm Scott Hiltz, LaGrange
David Charles Hutchman, East Liverpool
Brian Michael Kennedy, Youngstown
Brian Ross Lamerson, Livonia, MI
Patrick Joseph Manger, West Jefferson
Barry James Mazik, Westerville
Ana Marissa Mendoza, Beavercreek
Patrick John Mihelic, Stow
Alexandra Elaine Millsap, Columbus
Theodore Allen Mize, Berlin Heights
Michael Sean Mulligan, Utica
Thomas Glenn Musaki, Centerville
Sean Terence O'Neil, Minneapolis, MN
Seng Soon Ong, Penang, Malaysia
Todd Anthony Pomorski, Toledo
Rodger William Reel, Milan
Christopher Joseph Selvaggio, Lima
Boris Edward Slogar, Middleburgh Heights
Steven Anthony Slusher, Kettering
Charles William Stein, Luckey
David Edward Straub, Akron
James Timothy Watkins, Reynoldsburg
Douglas Alan Yard, Madison
Dante Toby Zettler, Kelleys Island

Bachelor of Science in Computer and Information Science
Gary Ray Arico, Port Clinton
Leon Daniel Baranovsky, Wyoming
Richard Lenny Beightler, Jr., Columbus
Brian Lee Bohman, Yorkshire
Brian Douglas Calhoun, Sacramento, CA
Gregory Scott Clark, Dayton
Gary George Clippinger, Utica
Brian Edward Combs, Perrysburg
Michael John Drum, Columbus
Jon C. Gilliam, Caledonia
Robert E. Halsey, Wadsworth
Kevin Michael Hampton, Gardner, KS
Joseph Charles Hepp, Toledo
Daniel James Hoffman, Barker, NY
Michael Eugene Holley, Columbus
Jay Steven Horvath, Mansfield
Hindra Irawan, Bogor, Indonesia
Steven W. Keller, Columbus
Stephen Lee Kenney, Utica
Cathy Lynn Korikian, Springfield
Harg Michael Korikian, Cambridge
Petr Kraguljac, Broadview Heights
Melinda Kay Lyle, Pickerington
Christopher Jay Lynn, Warren
John Timothy McCoy, Columbus
John Philip Meen, St. Louis, MO
Michael Edward Mellott, Mansfield
Michael A. Perkinson, Paisacola, FL
John Maribby Plaschke, Dayton
Steven Myers Riley, Westerville
Bryan Scott Rine, Mt. Vernon
Patrick Edward Saccist, Lexington
Michael John Segel, Pepper Pike
Ali Mustafa Smaili, Columbus
Brian Joseph Smith, Kettering
Douglas Randall Stiddham, Heath
Sandu Sudarsky, Bogota, Colombia
Garrett Joseph Suh, Avon Lake
Craig Wilson Tresch, North Lawrence
James Joseph Van Such, Youngstown
Richard A. von Claussburg, Pickerington
Michael Patrick Wallace, South Lebanon
David Bruce White, Worthington
John Alan Wieronski, Cleveland
Donald Alan Ziegler, Niles

Mark Andrew Barnes, Kettering
Patrick A. Balek, Lakewood
Gerald Todd Berry, Centerville
Mark Stephen Boaz, Worthington
Kurt Randall Brown, Lexington, KY
Eric Daniel Chandler, Stow
Joseph Anthony Chifos, Cincinnati
Alan Wei-Kai Chu, Nashport
Charles Chadwick Cooper, Lakewood
Kyle Lynn Creutzwater, Canton
Timothy Lisle Cupp, North Woodbury
Maria Priscilla Bautista De Leon, Sacramento, CA
Stephen John Deitzer, West Chester
Ronald Robert Dull, St. Henry
Dina Firozmand, Tehran, Iran
Albert Leslie Fryldland, Cincinnati
Seng Leh Goh, Muar Baru, Indonesia
Michael Louis Gomez, Willowick
Kevin Leslie Gooder, Sidney
John Edward Grolle, Parma
Albert Lee Hogan III, Columbus
Yee-Wing Haeh, Murraysville, PA
Gary Allen Jorgensen, Oxford
Michael Michael Kean, Leland, MI
Stephen Joseph Krak, Westerville
Raja Laila, Tunis, Tunisia
William Timothy Lesier, Akron
Douglas Edward Loyer, Worthington
Timothy Kears Maahs, Centerville
Douglas Alan Matthews, Wilmington
Gregory David Mull, Willowick
Scott Eugene Moser, Columbus Grove
Thang Huu Nguyen, Columbus
Todd Burton Norcross, Republic
Michael John Opatry, Bay Village
Janna Lee Patterson, Vermilion
Richard William Pomerantz, Cleveland
George Anthony Pontones, Columbus
Kyle Edward Riehle, Edgerton
Ramez Farid Saba, Columbus
Craig Richard Schwarz, Fairview Park
Brian Donald Smith, Columbus
Krist Allen Steiger, Delaware
Thomas Kazushige Sugimoto, Lancaster
Andrew Michael Sztanszio, North Olmsted
Scott Alan Tukvovics, Lorain
Jugal Kishore Vijayvargiya, Hudson
Daniel Norman Wan, Columbus
Laura Ann Weber, Lyndhurst
Lon Ellen White, Columbus
Kevin Dean Wilhelm, Mansfield
James Michael Wolfe, Westerville

Bachelor of Science in Engineering

Electrical Engineer
Imen Guediche, Sousse, Tunisia

Bachelor of Science in Electrical Engineering
John Edward Bahr, Chesterland
Christopher Brent Balough, Mason
Michael Alan Baise, Belleair

Mark Andrew Barnes, Kettering
Patrick A. Balek, Lakewood
Gerald Todd Berry, Centerville
Mark Stephen Boaz, Worthington
Kurt Randall Brown, Lexington, KY
Eric Daniel Chandler, Stow
Joseph Anthony Chifos, Cincinnati
Alan Wei-Kai Chu, Nashport
Charles Chadwick Cooper, Lakewood
Kyle Lynn Creutzwater, Canton
Timothy Lisle Cupp, North Woodbury
Maria Priscilla Bautista De Leon, Sacramento, CA
Stephen John Deitzer, West Chester
Ronald Robert Dull, St. Henry
Dina Firozmand, Tehran, Iran
Albert Leslie Fryldland, Cincinnati
Seng Leh Goh, Muar Baru, Indonesia
Michael Louis Gomez, Willowick
Kevin Leslie Gooder, Sidney
John Edward Grolle, Parma
Albert Lee Hogan III, Columbus
Yee-Wing Haeh, Murraysville, PA
Gary Allen Jorgensen, Oxford
Michael Michael Kean, Leland, MI
Stephen Joseph Krak, Westerville
Raja Laila, Tunis, Tunisia
William Timothy Lesier, Akron
Douglas Edward Loyer, Worthington
Timothy Kears Maahs, Centerville
Douglas Alan Matthews, Wilmington
Gregory David Mull, Willowick
Scott Eugene Moser, Columbus Grove
Thang Huu Nguyen, Columbus
Todd Burton Norcross, Republic
Michael John Opatry, Bay Village
Janna Lee Patterson, Vermilion
Richard William Pomerantz, Cleveland
George Anthony Pontones, Columbus
Kyle Edward Riehle, Edgerton
Ramez Farid Saba, Columbus
Craig Richard Schwarz, Fairview Park
Brian Donald Smith, Columbus
Krist Allen Steiger, Delaware
Thomas Kazushige Sugimoto, Lancaster
Andrew Michael Sztanszio, North Olmsted
Scott Alan Tukvovics, Lorain
Jugal Kishore Vijayvargiya, Hudson
Daniel Norman Wan, Columbus
Laura Ann Weber, Lyndhurst
Lon Ellen White, Columbus
Kevin Dean Wilhelm, Mansfield
James Michael Wolfe, Westerville

Bachelor of Science in Engineering Physics

Donald Jeffrey Churchill, Eastlake
William Wesley Dixon, Reynoldsburg
Philip Erny, Belford, NJ
Joseph Anthony Gentry, Cincinnati
James Duncan Harris, Portsmouth
Joseph Peter Maniar, Mt. Gilead
Keith Edward O'Hara, Columbus
Michael A. Riley, Lakewood
Paula Jean Stevenson, Columbus
Steven William Stitt, Crown City

Nicholas James Witchey, Shelby

Bachelor of Science in Industrial and Systems Engineering
Azah B. Abdul Rahim, Johor, Malaysia
John Lucas Adams, Montpelier
Irwan Ang, Medan, Indonesia
Jeffrey Scott Annis, Columbus
Cynthia Ann Black, Euclid
Marina Chudnovsky, Cincinnati
Melissa Lynn Cook, Thiells, NY
Douglas Paul Decker, Medina
Jill Cathleen Delaney, Beaver Creek
Douglas Jay Dulep, Lancaster
Richard Joseph Eppich, Hinckley
Mary Ellen Ernsthausen, Spencerport, NY
Suzanne Marie Finterman, Princeton Junction, NJ
David Joseph Gaby, Brecksville
Paul David Grove, Point Pleasant Beach, NJ
Todd Kenneth Guss, Cumberland
Cheryl Sue Harris, Cardington
Eddy Hartono, Jakarta, Indonesia
Christopher Edward Hollinger, Worthington
Amy Lynn Hulsizer, Cincinnati
Mark Steven Kirkandall, Pickerington
Ranvij Kwan, Pekan Baru, Indonesia
Edwin Darrell Long, Jr., Goshen
Julianne Lapica, Hudson
Richard William Maharry, London
Craig Allen Miley, Delaware
James Lyle Miller, Byrdia
Deborah Helen Murray, Eaton
James Allen Monnin, Versailles
Matthew Paul Mountain, Columbus
Joseph Salvatore Mulliner, Lorain
Lisa Anne Mustake, Brockfield
Philip Robert Ogrod, Bellbrook
David James Packard, Centerville
Mark Gallagher Paquin, Madison
Adnan Syed Qamar, Karachi, Pakistan
Chad Patrick Riedel, Attica
Stephen Thomas Rodriguez, Cleveland
Corrine Ileen Rose, Dayton
David Lawrence Roth, South Euclid
Douglas Moore Rupp, Columbus
Joan Ellen Schmidlin, Lyndhurst
Amy Lou Sue Schmidt, Lewisburg
Dyann Nicole Sneeck, Martins Ferry
Robert Jeffrey Stautfer, New Bremen
Natalie Jean Stokes, Cleveland
Donald Paul Waring, Lyndhurst
Senadi Widjaja, Malang, Indonesia
John Thomas Williamson, Jordonale
Jeffrey Randall Wood, Pickerington

Bachelor of Science in Mechanical Engineering
Francisco Javier Arleth, Madrid, Spain
Robert Allen Bacu, Westerville
Rose Marie Behinc, Madison
David Neil Bradwell, North Olmsted
Derrick Louis Brent, Washington, PA
John Patrick Brophy, Ann Arbor, MI
Jonathan Dean Buonomaci, Hubbard
Karen Lynn Burch, Worthington
Raymond Scott Cartier, Cincinnati
Kris Andrew Christensen, Columbus
James Michael Colliver, Jr., Worthington
Richard Edward Delehanty, Centerville
Steven Joshua Gluck, Cleveland
Barry Matthew Guinzi, Canton
Michael Nelson Haas, Richmond Heights
Raymond Etter Heyd, Lorain
Keith Alan Hohler, Dayton
Alan Glen Holmes, Zanesville
Leonard Gerald Horstman, Springfield
Joseph Charles Jirick, Northfield
Tae Young Kwak, Cleveland Heights
Ruth Ann Lada, Martins Ferry
James Dean Marple, Lancaster
James Francis Million, Columbus
Victor Carlos Moreno, Wyoming
Darlene Regina Nagel, Hartford
Jeffrey Mark Penskowski, Concord
Matthew Charles Pickston, Shaker Heights
Scott Eric Post, Painesville
Jonathan Drew Kader, Mansfield
William Allyn Reed, Reynoldsburg
William Paul Reinhard, Chesterland
Douglas Paul Ritzenthaler, Columbus
Richard Scott Robinson, Mt. Vernon
Brian Patrick Rooney, Bay Village
Carl Raphael Rorick, Circleville
Jonathan Mark Sabol, Reynoldsburg
Richard William Sachritz II, North Canton
Alan Todd Sandifer, Alliance
Stacy Ann Schimmel, Marysville
Talal Jamal Shaheen, Findlay
Brian Allen Shockey, East Liverpool
Glen Walter Spehr, Gahanna
Richard Keith Spyker, Lima
Douglas Lemoyne Straub, Sardis
Isi Sudit, Lima, Peru
Larry Eugene Swackhammer, Reynoldsburg
Douglas Scott Thoma, Dayton
John Cloyce Thomas, Findlay
Robert Michael Tracy, Pittsburgh, PA
Vinh Kim Tran, Columbus
Koorosh Vossough, San Jose, CA
Jeffrey Allan Walsh, Sylvania
James Ronald Wharton, Avon
Thomas Eugene Wiseman, Kettering
Christophor John Wodarzkyk, Grove City
Dennis Arthur Yard, Madison

Bachelor of Science in Metallurgical Engineering

David J. Bradley, Columbus
Peter William Brown, North Canton
David Keith Findley, Mansfield
Frederick Dale Gehl, North Canton
David Scott Haghiri, Wooster
Mark Andrew Harper, Columbus
John Leo Hauk, Columbus
James Paul Krzywka, Vermilion
Stephen Edward Maddox, North Canton
Nanda Kumar Manogaran, Ipoh, Perak, Malaysia
James Michael Mullen, Kettering
Patrick Jon Musrey, Marble Cliff
John Augustin Neff, Zanesville
James Nick Sajatovic, Willoughby Hills
William K. Schlichting, Callrecy, NY
Gerald Stoltman, Solon
Ronald Lewis Stutesman, Botkins
Eugene Kwanghowe Tan, Singapore
Jeffrey Alan Taylor, Gahanna
Joseph Charles Wissman, St. Clairsville

Bachelor of Science in Surveying

Robert Andrew Bosworth, Pickerington
Scott William Delisio, Olmsted Township
Dru Alan Smith, Toledo

Bachelor of Science in Welding Engineering

Daniel Buri Arthur, Mentor
James Terry Banal, Jr., Dille Dale
Eric Jon Berthouse, East Liverpool
Garry Galen Brown, New Baltimore
Kevin Lee Cogg, Columbus
Andrew Duffy Cooper, Pittsburgh, PA
Curtis Dean Davies, Chardon
John Logan Davis, Jr., Columbus
Jay Richard Eastman, North Canton
David Alan Elliot, Youngstown
Eric Joseph Giese, Cincinnati
Richard Samuel Green, Fairfield
David Allen Grewell, West Lafayette
Patrick Michael Griffen, Wadsworth
David Scott Haghiri, Wooster
Jeffrey Loyd Hardisty, Columbus
Douglas Scott Hoyt, Elyria
Terri Tomas Infield, Sugarcreek
Robert Christian Jonas IV, Columbus
Dan C. Kingman III, Lincoln, NE
Scott Wendell Knappen, La Crose,
Jeffrey Michael Kurshn, Parma Heights
Tomas Jerker Magnusson, Halleviksstrand, Sweden
Vance Alan McCray, Columbus
Karen Irene Miller, Warren
Michael Gerard Poss, Worthington
Lonnie Irving Rush, Jr., Pickerington
James Joseph Seelena, Carpentersville, IL
Matthew David Shalosky, Reynoldsburg
Steven Mark Smith, Mt. Blanchard
Thomas Frederick Smith, Bexley
Robert Allen Spierer, Mansfield
Christopher Allan Thomas, Sidney
Bart Eric Thrash, Westfield Center
Steven Charles Zanola, Milford
Douglas Paul Zimmerman, Salem

School of Architecture

Bachelor of Science in Architecture

Jeffrey W. Allshbrook, San Pedro, CA
Julie Ann Baird, Salem
Steven Brent Baker, Pittsburgh, PA
Marcia Kay Baschnagel, Columbus
Robert Edmund Boone, Pittsburgh, PA
Jeffrey Alan Brooks, Dayton
Alexander D. Christoforidis, Columbus
Christine Louise Clark, Sagamore Hills
Thomas Robert Davis, Worthington
Richard Paul DeMarco, Jr., Mentor-on-the-Lake
Craig Eugene Dillon, Springfield
Scott Alan Draughn, Sidney
James George Dresia, Gahanna
Juan Eliebittia, Madrid, Spain
Robert Karl Evans, Cleveland Heights
Bryan Lee Faunt, Sylvania
Anthony Errol Feilback, Englewood
Richard J. Fisher, Jr., Girard
Mark Stephen Foster, Toledo
Bryan Neil Giese, Pandora
Todd Alland Griffith, Washington Court House
Martin Allan Griggs, Columbus
Scott Richard Harper, Columbus
David Eliot Jamison, Worthington
Edward Charles Jenderec, Worthington
Brad Avi Keest, Beachwood
Mark B. Kimura, Dayton
Benjamin Edward Kyles III, East Cleveland
Christopher Jan La Rosa, Columbus
Chih-Ming Ling, New York, NY
May Lo, Coral Gables, FL
Wilson Ngiap Hang Loh, Singapore
Laura Ann Martina, Parma
Christine LeAnn Meeker, Findlay
Kyle Erich Miller, Marietta
Randall Clay Mullins, Wheelersburg
Kevin Paul Pierce, Laura
Ronald Henry Ruppersburg, Columbus
Craig Louis Rutkowski, Fairborn
Gary Lee Sebach, Zanesville
Douglas Allan Skrlac, New Carlisle
Steven Fredrick Smith, Perrysburg
Jon Joseph Sofranie, Poland
Evangelos Epiphaniou Solomondes,
Larnaca, Cyprus
Alyssa C. Spechalske, Lodii
Douglas Eugene Swartz, Fairlawn
Mark Owen Taylor, Marysville
Boonswee Tee, Kuala Lumpur, Malaysia
Geralyn Campanelli White, Canton
Philip Owen Wintle, Jr., Lancaster
Bradford Mitchell Winkeljohn, Columbus
Kab Ong Wong, Kuching, Malaysia
Todd Raymond Wroblewski, Westlake
Bachelors of Science in Landscape Architecture

Melinda Mary Appold, Toledo
Janice Lee Aaslie, Huron
Cletus Joseph Benken, Cincinnati
Peter John Burke, Youngstown
Kenneth Scott Dickerman, Manlius, NY
Joseph Allen Fry, Cincinnati
Andrew C. Gay, Columbus
Timothy Charles Glotioso, Willard
Mary Ann Hemli, Huntington, NY
Robert Arthur Jun, Jr., Sandusky
Michael Dennis Kannard, Lima
James Scott Louthen, Columbus
David Charles Moer, Pinehurst, NC
Laura Ann Murray, Eastlake
Eric Michael Nagy, Delaware
John August Pagliulung, Canton
Carol Ann Perovshek, Willoughby
Carolyn Ann Risch, Blacklick
Christopher Anthony Rowney, Toledo
Boris Milan Terebuh, Bellefontaine
David Alan Warze, Columbus
Donald F. Willner, Jr., Tipp City
Brian James Yoder, Toledo
Ted Allen, Zangmeister, Bremen

Bachelors of Science in Home Economics

Dean: Lena Bailey

Bachelors of Science in Home Economics

Diane Mae Acton, Yellow Springs
Stefani Jill Adelman, Pepper Pike
Mary Beth Aeh, Galloway
Diana Lynne Aiitenburger, Lima
Megan Aileen Anello, Cincinnati
Lori Lynn Anglo, Wauken
Leila Ruth Bardill, Parma
Amy Beth Beard, Harperst
Kimberly Dawn Besecker, Troy
Leann Michelle Bemsky, Lyndhurst
Janie Renee Black, Kenton
Terri Rochelle Brennan, Wooster
Jennifer Lynn Brock, Okeana
Kelly Sue Brown, Willoughby
Robin Lynn Bryan, Wilmington
Annette Margarite Campbell, Columbus
Pamela Louise Card, Worthington
Christine Marie Carmel, Kettering
Camilyn Jo Chatta, Fredericktown
Amy Joane Clement, Lima
Steven: Lee Conover, Columbus
Camie John Cropper, Bolivar
Lynda Rachelle Curl, Tippa
Jill Leslie Davis, Pepper Pike
Mantha Ann Davis, Vestal, NY
Donna Leigh Decker, Orient
Daniel Joseph Demastry, Mentor
Brenda Eileen Dillon, Newark
Constance L. Dow, Worthington
Kelli Jean Ehrhardt, Mayfield Village
Patricia Ann Estep, Columbus
Margaret Anne Bannan Evensole, Worthington
Rhonda Kay Freeman, Lorain City
Cynthia Ann Fuller, Delaware
Lori Lynn Ganer, Westerville
Lynn Ellen Gayton, Columbus
Mary Suzanne Glancy, Columbus
Kimberly Ellen Goodman, South Euclid
Sheryl Marie Groff, Mansfield
Jill Leslie Gurwin, Columbus
Lisa Marie Haney, Xenia
Suzanne Marie Harper, Tiffin
Stephanie Allison Hartman, Wayne, NJ
Susan Elaine Heckman, Troy
Jennifer Marie Hegarty, Columbus
Charlaine Louise Henderson, Reynoldsburg
Jill Anne Hines, Bellefontaine
Daphne Jane Hippel, Columbus
Susan Elizabeth Hirsch, Cleveland
Lori Ann Holbrook, Jackson
John Kay Hopson, Anna
Karoline Lee Humphrey, Columbus
Elizabeth Susan Ice, Lorain
Janet Ineson, Huron
Patricia Ann Jacobs, Gambier
Audrea Yvonne Johnson, Middletown
Kurt Robert Kessler, Reynoldsburg
Pamela Faith Kest, Cleveland
Pamela Sue Kollman, Hudson
Elizabeth Jane Kuhn, Shaker Heights
Kimberly Ann Kumer, Lancaster
Alyssa Dyan Kutz, Concord
Lori Kay Lammers, Minster
Martha Ann Landrum, Cleveland Heights
Natalie Kris Lederer, Shelby
Diane Kay Leflar, Waynesboro, VA
Mary Margaret Liles, Belle Center
Lisa Dianne Luckado, Westlake
Isabel J. Martin, Shaker Heights
Mary Margaret McCoy, Grove City
Cynthia Lynn Michael, Cincinnati
Mary Helen Murphy, Sunbury
Leanne Stephanie Neuhart, Coldwell
Audra Kay Nickels, McArthur
Dorothy Kathryn Nolan, Columbus
Jennifer Sue Parker, Westerville
Susan Marie Pavlovic, Kenton
Valerie Anne Pendleton, Norwalk
Yvonne Ruth Perry, Massillon
Deborah Lynn Price, Mentor
Ronald Craig Pruksma, Columbus
Susan Emily Purvis, Hamilton
Christine Danielle Rapol, Zanesville
Denise Lynn Rapp, Gibsonburg
Tina Louise Ray, Kingston
Tricia Louise Robinson, Bloomington
Devon Leigh Romp, Avon Lake
Lisa Sue Rosenblum, Beachwood
Andrea Louise Royer, Columbus
Tricia Ruthanne Russo, Reynoldsburg
Julie Beth Schorr, South Euclid
Amy Lynn Selby, Middletown
Laura Lynn Sensenbaugh, Centerville
Amy Lee Sessi, St. Clairsville
Amy Margaret Stave, Chesterland
Amy Elizabeth Synk, Berea
Theresa Marie Tosino, Toledo
Donna Marie Trenkle, Lakewood

Bachelors of Science in Hospitality Management

Lisa Carol Archer, Dublin
Paul Kurt Barrenstecher, Houston, TX
Kelli Lyn Bues, Wharton
Patricia Nelle Cleavey, Columbus
Curtis Clay Deeter, Greenville
Robert Lawrence Gray, Columbus
Russell Paul Guemner, Akron
Rebecca Lee Hancock, Columbus
Deborah Rose Johnson, Hamilton
Susan Kay Jordan, Ridgeway
Randall Kirby Knapp, Columbus
Yvonne Carmen Lohrer, Republic of Panama
Susan Kay McConnell, Columbus
Brian Donald McKay, Arlington Heights, IL
Anthony Robert Serio, Columbus
Thomas Todd Stewart, Bridgeport
Lisa Ellen Tillson, Triubull, CT
John Willia VanVoorst, Jr., Columbus

Bachelors of Science in Nutrition

Hassan M.F. Farhood, Riyadh, Saudi Arabia
Vincent Frank Ferrini III, Worthington
Ryan Paul Hanson, Fortostia
Sandra Marie Jones, Cincinnati
Jeffrey Ray Neber, Bay Village
Matthew Stevenson Wayne, Shaker Heights

College of Law

Dean: Francis X. Beattagh, Jr.

Juris Doctor

John Stanton Addams, Marysville B.A.
Margaret Bush Apel, Portsmouth A.B. Psychology (Ohio University)
Christopher Armstrong, Cayugah Falls B.S. (University of Akron)
Carolyn Susan Baker, Centerville B.S. (Wright State University)
Joseph Edwin Bailer III, Kettering B.A. (Emory University)
Rolf Eric Baumgarten, Youngstown
A.B. (Ohio University)

Luann Kathryn Bellanca, Centerville
B.A. (University of Cincinnati)

John Patrick Besselman, Alliance
B.S. (Kent State University)

Gregory John Betchkal, Shaker Heights
B.A. (Fairfield University)

Yvonne Luketich Blauvelt, Lockbourne
B.S. (Indiana University of Pennsylvania); M.A., Ph.D.

Denis Jay Bowsher, Mt. Sterling
B.A.

Michele Denise Brown, Detroit, MI
A.B. (University of Michigan)

Bruce Martin Broyles, Lancaster
B.A. (Wittenberg University)

Diana Fay Butts, Columbus
B.A.

Margaret R. Carman, Columbus
B.A. (Heidelberg College)

Carol Lynn Cassell, Grove City
B.A.

James Lee Catanzaro, Jr., Mentor
B.A.

Alison Lanier Cauthorn, Reedspring
B.A. (Ohio Wesleyan University)

Melissa Ann Chase, Alpharetta, GA
B.A.

Judith Ann Clasing, Dayton
B.S. (Heidelberg College)

Ruth Evelyn Clough, Cleveland
B.A. (Cleveland State University)

Rachelle Cohen, Dayton
B.A., B.A.Jour.

Debra Ann Colacci, Westerville
B.A. (Miami University)

Cindy Ann Coleman, Cincinnati
A.B. (University of Michigan)

LaVawn Dee Coleman, New Concord
B.A.

Regina Adelle Collins, Cincinnati
A.B. (Mount Holyoke College)

Kevin Robert Connors, Columbus
B.A. (University of California, Berkeley)

Karin Connolly, State College, PA
B.A. (The College of Wooster)

Kevin Thomas Connor, Enon
B.A. (Central Connecticut State College)

Mona Lisa Cook, Columbus
B.A. (New York University)

Peggy Jean Corn, Columbus
B.A. (University of Kentucky); M.A., Ph.D.

Connie Anne Crim, Dublin
B.A. (Mount Union College)

Philomena Mary Dane, Kent
B.A. (Saint Norbert College)

Laura Pearson Davis, Gibsonburg
B.S.Bus.Adm.

Kerry Brice Dawson, Newark
B.A.

Paul Albert DeBolt, Jr., Cadiz
B.A. (John Carroll University)

Lawrence John Debrincat, Livonia, MI
B.S. (University of Detroit)

Carol Landis Demmler, Columbus
B.A. (Capital University)

Harry Joseph De Pietro, Girard
B.S. (Youngstown State University)

Debra Ann Dixon, Mansfield
B.A. (Wheaton College)

Gina Cecile Donald, Jersey City, NJ
B.S. (Virginia State University)

Tami L. Dorris, Gahanna
B.A.

Michael Dubetz, Powell
B.S.C.E. (The University of Akron)

Mitchell David Dudek, Sidney
B.S. (Texas A & M University)

Patrick Brian Duricy, Niles
A.B. (Youngstown State University)

Keith Rollin Eakins, South Charleston
B.A.

Dannia Linn Edwards, Detroit, MI
B.A. (Albion College); M.B.A. (Wayne State University)

Daniel R. Elliott, Shaker Heights
A.B. (University of Michigan)

Richard P. Emich II, Akron
B.S.Bus.Adm.

Juliana M. Faris, Grove City
B.A.

Walter Tuttle Florence, Plain City
B.A. (Wheaton College)

Kevin R. Floyd, Benton Harbor, MI
B.B.A. (Northwood Institute)

Debra Lynne Fortenberry, Milford, MI
B.A. (Central Michigan University)

Kimberly Ann Friedman, Toledo
B.A. (Grinnell College)

James E. Fryman, Oxford
B.Phil. (Miami University)

Roy Ellis Gabbert, West Union
B.A.

Susan Marie Gabriel, Columbus
B.A.

Sylvia Lynn Gilliss, Flagstaff, AZ
B.A. (Northern Arizona University)

Carrie Elizabeth Gladden, Janesville
B.A. (University of Wisconsin, Madison)

Jodi Ann Govern, Alliance
B.A.

Dodd Joseph Gray, Columbus
B.S. (Purdue University)

Robin Williams Green, Worthington
B.S.Agr.

John Paul Gruber, Cincinnati
B.A. (Xavier University)

Eric Michael Gutenberg, Bloomfield Hills, MI
A.B. (University of Michigan)

Jennifer A. Hardin, Cincinnati
B.A. (University of Cincinnati)

James W. Hanshaw, Eugene, OR
B.S. (University of Oregon)

Richard J. Helmreich, Worthington
B.S. (Bowling Green State University)

Jonathan D. Henry, Dayton
B.A. (University of Dayton)

Kristin Elena Hildebrant, Dayton
B.S. (Wright State University)

Felicity M. Hiltner, Tiffin
B.A. (Denison University)

Ann Aileen Holom, Fort Wayne, IN
B.A. (Indiana University)

Jeffrey Howard Hurley, Youngstown
B.A.

John Duffield Jackson, Bryan
B.A.

Douglas Richard Jennings, Columbus
B.A.

Laura Leigh Joly, Dayton
B.A. (Indiana University, Bloomington)

Anthony Theodore Kaplanis, Canton
B.A.

Deborah Ann Katz, Aurora
B.A. (University of Pennsylvania)

John Wright Kennedy, Columbus
B.A.

Kirt T. Kisselle, Bowling Green
B.S.Bus.Adm. (Bowling Green State University)

Curtis Horn Knapp, Columbus
B.S.Aviation

Jamie Belle Kreiling, Reynoldsburg
B.S.Bus.Adm., M.B.A.

Vincent E. Lagana, Westerville
B.A. (Rugers University)

Patricia J. Lamphear, Columbus
A.D. in Nursing (Otterbein College); B.A.

John L. Landolfi, Niles
B.A. (Westminster College)

Michael Joseph Lang, North Olmsted
B.A. (College of William & Mary)

Kammy Teresa Laycock, Stuart, FL
B.A.

David Charles Levine, Detroit, MI
B.A. (Oakland University)

Joseph A. Licavoli, Warren
B.A. (Kent State University)

Kyung-Jin Lim, Dearborn, MI
A.B. (University of Michigan)
College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Jonnette Merlee Miguel Ancheta, Santa Maria, CA
B.S. (University of California-Los Angeles)

Gary Bernard Anderson, Upper Arlington
B.A. (Amherst College)

Geoffrey Michael Anderson, Canal Winchester
B.A. (Capital University)

John James Antalia, Shadyside
B.S.

Michael John Aruta, Madison
Louis Gregory Arvanetes, Upper Arlington
B.A. (Stanford University)

Kisa Ewing Barbour, Akron
B.S.

Teri J. Barkoukis, Akron
B.S. (University of Akron)

William Harold Bartlett, Mission Viejo,
CA
B.A. (University of California-San Diego)

Kian Behbakhht, Columbus
B.S.

Jeffrey Walton Bell, Washington, DC
B.S. (West Virginia University)

Gregory John Benson, Poland
B.A. (Wittenberg University)

Tami Dianne Benton, Cincinnati
B.A. (Oberlin College)

Claudette M. Bibro, Strongsville
B.S. (Kent State University)

Jonathan Paul Blasius, North Olmsted
B.A. (The College of Wooster)

Robert Todd Bloom, Wyoming
B.S.

Robert Howells Blotter, Cincinnati
B.S. (Bingham Young University)

Charles John Bogdan, North Lima
B.S. (Youngstown State University)

Michael Lee Boninger, South Euclid
B.S.

Stephen Hayse Boyer, Jackson Center
B.S.

Lisa J. Braverman, Dayton
B.S. (University of Michigan)

Chris Brian Bringhurst, Fontana, CA
B.A. (Bingham Young University)

Barry Allen Brokaw, Marietta
B.S. (Duke University)

Kenneth Stephen Brown, Columbus
B.S. (University of Massachusetts at Amherst)

Robert Victor Bulas, Newark
B.S.

Wendelin Ann Burdo, Waterville
B.S.

Eric David Burger, Fremont
B.A. (Wittenberg University)

Sharon Linda Busey, North Canton
B.S. (Ohio University)

Michael Andrew Campagni,
Riverside, CA
B.S. (University of Southern California)

Kevin Giles Campbell, Hamilton
B.S. (University of Cincinnati)

Ann-Marie Campione-Stephens,
Cincinnati
B.S. (Butler University)

Mark Edward Caputo, Youngstown
B.S. (Xavier University)

Denise Lynn Carpenter, Columbus
B.S.

Carolyn Ann Chambers, Rochester, NY
B.A., B.S.

Cindy Jee-Sing Chang, Columbus
B.S.

Wen-shiung Chow, Columbus
B.S. (National Taiwan University);
Ph.D.

Joseph Patric Chozinski, Sheffield
B.S. (University of Akron)

Debra Rae Cody, Medina
B.A. (Northwestern University)

Harold David Cohn, Pepper Pike
B.S. (The University of Michigan)

Tim Kiernan Conlan, Vienna
B.S. (United States Naval Academy)

Kelley Martin Cousin, Ada
B.S. (Ohio Northern University);
Ph.D.

Mark Douglas Crawford, Columbus
B.A.

Paul Ridge Culler, Lucas
B.A.

Camiilla Curren, North Ridgeville
B.S.

Robert McMillion Custer, Pittsburgh, PA
B.S. (University of Dayton)

Stephen Wayne Dailey, Jr., Cincinnati
B.A. (Miami University)

Susan Lee Darmstadter, Lexington, KY
B.S.

Karen Elaine Dearmont, Akron
B.A. (Kenyon College)

John Leonard DeFilippo, Yorkville
B.S.

Lisa Marie Deranek, Seven Hills
B.S. (Kent State University)

Denise Deschenes, Laconia, NH
B.S. (University of New Hampshire);
M.S.

Michael Dick, Shelby
B.A. (University of Colorado);
M.S.

Leslie Carol Doctor, Greens Farms, CT
B.A. (Cornell University)

Janet Elaine Durick, Struthers
B.S. (Youngstown State University)

Jon Andrew Elias, Stow
B.S. (Kent State University)

Kelly Jakubowski Emch, Toledo
B.S. (University of Toledo);
B.A. (Southeastern College)

Alice T. Epitropoulos, Columbus
B.S.Nurs.

Ann Kyle Ericsson, Mansfield
B.A. (DePauw University)

Tina Louise Evans, Galion
B.S.
Jeffrey Earl Everett, Deerfield
B.S. (Mount Union College)

John Charles Eyre, Columbus
B.A. (Miami University)

Michael Derwin Fetter, Hilliard
B.A.

Christopher Michael Fleming, Marion
A.B. (Kenyon College)

David Brian Fox, Dayton
B.A. (University of Cincinnati)

Lisa Ann Franko, Seven Hills
B.S.

Raymond Dayre Fuller, Delaware
B.S.

Jennifer Ruth Gallant, Columbus
B.M. (Indiana University)

Patrick Charles Garvey, Piqua
B.S. (Xavier University)

Mark Andrew Gersman, Vienna, WV
B.A.

Ellen Dongjoo Gim, Fairview Park
B.S.

Gregory Steven Goings, Springfield
B.M.E. (Wittenberg University)

Thomas Edward Greely, Reynoldsburg
B.S. (University of Cincinnati)

Robert Allen Greene, Beachwood
B.S.

Susan Elizabeth Griley, Columbus
B.A.

Jay Weston Grosse, Columbus
B.A., B.A. (Mount Vernon Nazarene College)

Mark Richard Grubb, Berea
B.S. (Bowling Green State University)

Nancy Fazekas Grubb, Maple Heights
B.S. (Bowling Green State University)

Catherine Anne Hadaway, North Canton
B.S. (University of Akron)

Scott J. Hadaway, Elyria
B.S. (Bowling Green State University); D.D.S.

David John Hak, Sawyer, MI
B.B.A., B.S. (The University of Michigan)

Lisa Ann Hamilton, Columbus
B.S.

David Duffield Hamlar, Jr., Columbus
B.S. (Tufts University); D.D.S. (Howard University)

Thomas Peter Harder, Gallipolis
B.S. (Ohio University)

Randall James Harris, Wickliffe
B.A. (Miami University)

Joy Ann Hart, Greenville
B.A. (Cedarville College)

Ronald Lee Harter, New Madison
B.A. (Capital University)

Walter Herbert Haught, Littleton, CO
B.I.E. (Georgia Institute of Technology)

Joyce Eugene Hayes, Brandon, CT
B.S. (University of Connecticut)

Wendy Jo Heck, Plymouth, MN
B.A. (Carleton College)

Raul A. Hernandez, Jr., Youngstown
B.S.

Sean Patrick Heron, Kettering
B.A. (Denison University)

Joan Lynn Huffman, Barberton
B.S. (University of Akron)

James Allen Jacob, Toledo
B.A. (Miami University)

Michelle Ylagan Jimenez, Middleburg Heights
B.S. (Baldwin-Wallace College)

Paul Linden Jones, Berea
B.A. (Case Western Reserve University)

Sharhabbel Musa Jwawyed, Youngstown
B.S. (Youngstown State University)

Sunjun Kang, Houston, TX
B.S. (University of Texas, Austin)

Pamela Elizabeth Kapraly, Mason
B.A. (Wittenberg University)

Douglas Alan Katula, Poland
B.A. (DePaul University)

Lisa Margaret Keder, Bradford, PA
B.A. (Oberlin College)

Paul Evan Kelner, Beachwood
B.S.

Stephen Joseph Kennedy, Besley
B.S.

Hanan Kerr, Cincinnati
B.S., M.S.

Sean Kaulin Kesterson, Upper Arlington
B.S.

Parisa Khavari, Warren
B.A. (Case Western Reserve University)

John Sang Ho Kim, Bowling Green
B.S. (University of Michigan)

James Patrick Klejka, Sheffield Lake
B.A. (Kenyon College)

Paula Chi-Lin Ko, Columbus
B.S.

Chris Konstantinou, Dayton
B.S. (Wright State University)

Kevin Richard Kruse, Cincinnati
B.S. (Denison University)

John Michael Lahorza, Pepper Pike
B.A. (Miami University)

Joseph William Lanese, Cleveland
B.S. (Kentucky Wesleyan College)

Alyson Hope Leeman, Columbus
B.A.

Charles Edward Levy, Cleveland
B.A. (Case Western Reserve University)

Lapman Lun, Hong Kong
B.S., M.S. (Case Western Reserve University)

Tuan Anh Luan, Columbus
B.S. (Yale University)

Michael Joseph Makley, Columbus
B.A. (Boston College)

George Anthony Martin, Columbus
B.S.;

M.S. (Central Missouri State University)

John Patrick Martucci, Akron
B.A. (Akron University)

Paul Ramon Maynard, Chelmsford, MA
B.A (Skidmore College)

Leon McDougale, Sandusky
B.A. (University of Toledo)

Mark Fletcher McGee, New Lexington
B.G.S., M.Ed. (Ohio University)

Matthew Murray McLaughlin, Kettering
B.S. (Ohio University)

Diana Lynne Mears, New Philadelphia
B.A. (Kenyon College)

Laurent Jeanne Mehler, South Pasadena, CA
B.A. (University of California, San Diego)

Robert Joseph Meleca, Columbus
B.S.

Dale Andrew Michalak, Toledo
B.S.

Amy Ileen Miller, Beachwood
B.A. (Washington University)

Michael Anthony Mollé, Dayton
B.S. (University of Dayton)

Jeffrey Scott Mollé, Richmond Heights
B.A. (Case Western Reserve University)

James Roger Monte, Lakewood
B.S.

Paul Franklin Moodispaw, Neills
B.A.

John Patrick Morgan, Cincinnati
B.S. (University of Cincinnati)

Sayoko Eileen Morio-Fetter, Kent
B.A. (Duke University)

Gayle Ann Muchher, Rochester, NY
B.S. (State University of New York College of Oenonta);
M.S. (University of Colorado)

Andrew Mark Muchow, Sylvania
B.A. (Ohio Wesleyan University)

Cynthia Jane Mueller, Adena
B.S. (Wheeling Jesuit College)

Rajyalakshmi Mukkutla, Boston, MA
B.A., M.P.H. (Johns Hopkins University)

Robert Arthur Musson, Akron
B.S. (University of Akron)

Mari Elizabeth Myers, Columbus
B.A. (Northwestern University)

Mark Allen Myers, Alliance
S.B. (Massachusetts Institute of Technology)

Katina V. Nicolacakis, Cuyahoga Falls
B.S. (Purdue University)
Alexandros William Nicolozakes, Cambridge B.S.
Scott Douglas Oates, San Diego, CA B.S. (Duke University)
Richard George Ohye, Berkeley Heights, NJ B.A. (University of Pennsylvania)
Jennifer Scherer Ouweleen, Niagara Falls, NY B.S. (Niagara University)
Kevin Michael Ouweleen, Rochester, NY B.S. (Niagara University)
David Charles Packo, Toledo B.S. (University of Notre Dame)
Lester Dean Padilla, Reseda, CA B.S. (University of California, Los Angeles)
Trina Marie Pagano, Girard B.S. (Bowling Green State University)
Brian Edward Park, Kettering B.A. (Oberlin College)
John Vann Parker, Satellite Beach, FL B.S., M.S.
Michael Sean Parker, Delaware B.A. (Kenyon College)
Sam Lawrence Penza, North Jackson B.S., M.S. (Youngstown State University)
Jan Ellen Perry, Huntington, WV B.S. (Wright State University)
Bryan Lee Philbrook, Cardington B.S.
Jeffrey Scott Philip, Toledo B.A. (Miami University)
Debra Anne Pinsky, Toledo B.A. (University of Toledo)
Janice Kay Pohlman, Hamburg, NY B.S. (Michigan State University)
Amy Loren Pope-Herman, Baltimore B.S.
Carl Douglas Porter, Springboro B.A. (University of Virginia)
Angela Teresa Powell, Columbus B.S. (Virginia Union University)
Phillip Duane Price, Medina B.A. (Capital University)
Clifford Andrew Purcell, Owings Mills, MD B.S. (University of Florida)
Theodore James Quilligan, Los Angeles, CA B.S. (University of California, Irvine)
Jennifer Mylius Ridge, North Canton B.A.
Beth Anne Ridgway, Dayton B.S.
Joseph Aloysius Ridgeway IV, Bexley B.A., B.S. (University of Notre Dame)
Joseph Leo Riehman, Maria Stein B.S.
Bradley James Riley, Shelby B.S.
Cliff Allen Robertson, Denver, CO B.A. (University of Colorado)
Dina Kathleen Rooney, Canal Fulton B.S.
Joseph John Rossi, Jr., Pickerington B.A. (Washington University)
Michael Joseph Ruben, Clinton B.S., M.S.
Laura Jane Rue, Wauseon B.S. (Bowling Green State University)
Gregory Lewis Runser, Elyria B.A. (Ohio Wesleyan University)
Maria Therese Samaaro, Centerville B.S. (University of Miami)
Gregg Matthew Santilli, Upper Arlington B.S.
Carol A. Saylor, Bowling Green B.S. (Bowling Green State University)
John Michael Schechter, Toledo B.S. (Miami University)
Henry George Schneider III, Huntington B.S. (State University of New York)
Janus E. S Заман, Upper Arlington M.S. (The Florida State University)
Eric Christian Schriner, Cincinnati B.S. (Vanderbilt University)
Primrose Anne Sedmak, Columbus B.S. (Wright State University); D.V.M.
Dan Y. Shamir, Cleveland B.A. (Yeshiva University)
Janet Joy Silbergeld, Garrett Park, MD B.A. (Stanford University); M.S. (University of California, Berkeley)
Lori Sills, Maumee B.S. (University of Toledo)
Scott Evan Singer, Beachwood B.A. (Northwestern University)
Navkaran Bhagwant Singh, Highland Heights B.S. (Northwestern University)
Renu Sinha, Reynoldsburg B.S.
Sukirtharan Sinnathamy, Dayton B.S. (University of Dayton)
H. Wayne Stone, Beaver B.S.
Norman Alan Smyke, Jr., Kirtland Hills B.S.
Anthony Newman Soddi, Cincinnati B.S., M.S. (University of Cincinnati)
David Francis Soehner, Kettering B.A. (University of Dayton)
Jeffrey Ward Spychalski, Upper Arlington B.A. (Vanderbilt University)
Jean Ellen Starr, Tiffin B.S.
Jeffery Edward Stedwill, Toledo B.S. (The University of Dayton)
Harold Craig Stevens, Columbus B.S. (University of Akron)
Roger Scott Stiebner, Wapakoneta B.S.
Maureen Elizabeth Stubbs, North Olmsted B.S. (University of Notre Dame)
Mary Kay Subler, Versailles B.S. (University of Dayton)
Ken Takeshi Takegami, Honolulu, HI B.A. (University of Hawaii, Manoa); M.P.H. (University of Hawaii School of Public Health)
Craig Richard Thompson, Columbus B.S. (Otterbein College)
Cecily Mary Tobin, Columbus B.S. (University of Iowa)
Karen Elaine Tobin, New Washington B.A. (Wheaton College)
Cathy Lynne Vendeland, Lyndhurst B.S. (University of Michigan)
Alexia S. Vergheese, Wadsworth B.A. (Case Western Reserve University)
Francis Albert Vogeles, Mansfield B.S. (University of Notre Dame)
James Warren Wagner, Grosse Pointe Farms, MI B.A. (Albion College)
Angela Mary Walther, Cincinnati B.S. (University of Cincinnati)
Elizabeth Terese Walz, Mt. Vernon B.A. (Miami University)
William Lloyd Washington, Columbus B.S.
Frederick Daniel Watanabe, Kemington, CA B.A. (University of California, Berkeley)
Eden Victoria Wells, San Francisco, CA B.A. (University of California, San Diego)
Elizabeth F. White, Shippenburg, PA B.S.
William Bruce White, Albany, GA B.A. (San Francisco State University)
Susan Holly Wick, Athens B.F.A., B.S. (Ohio University)
Gary Anthony Wilson, Oxford B.A. (Miami University)
Roger Duane Wilt, Wilmington B.A. (Wittenberg University)
James David Wines, Jr., Franklin B.S., B.A. (Evangel College)
Terry Eugene Wiseman, Lexington B.S. (Bowling Green State University)
Michael David Yokus, Wadsworth B.A. (Wittenberg University)
Certificate of Post Baccalaureate Medical Technologist

Jane Susan Gimigliano, North Canton
B.A. (Miami University)
Suzanne Long, Columbus
A.A., B.A. (Ohio Dominican College)

Certificate of Study in Medical Dietetics

Lisa Ann DeMeco, Columbus
B.S.
Krystie Ann Russell, Gahanna
B.S.H.E.
Connie R. Gase Speros, Tiffin
B.A. (Heidelberg College)

Certificate of Study in Physical Therapy

William Russell Grote, Columbus
B.S.Soc.Wel.
Erich Leo Schetz, Youngstown
B.S. (Youngstown State University)

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Janet Arleen Aker, Baltimore
Edward Joseph Alexander, Akron
Susan Marie Andreksi, Parma
Michelle Separz Anlogaue, Seven Hills
Pamela Joy Arthur, Fredericktown
Phyllis Joy Atkinson, Galion
Linda Kay Badt, Westlake
Laura Lynn Barnes, Newark
Susan Lynn Baumann, Elyria
Deborah Ann Beathler, Mansfield
Marc Hollis Biel, Columbus
Jacqueline Sue Boespflug, London
Lori Michele Bortz, Hartville
Mary Lee Bouchette, Columbus
Heidi Ann Brack, Richmond Heights
Denise Diane Brandon, Akron
Susan Cecilia Braun, Coldwater
John Maurice Brion, Jr., Clearfield, PA
Karen Louise Brown, Columbus
Julie Anne Bush, Columbus
Stephanie Christen Campbell, Seville
Tammy Lynne Canfield, Mansfield
Kelly Marie Carrico, Xenia
Michelle Leigh Clapp, Dublin
Christie Lynn Colman, Findlay
Triana Shae Corthell, Sidney
Jill Marie Craig, East Palestine
Cheri Cyrus, Ironton
Jana Jo Dean, Washington Court House
Patrick Joseph DiMeo, Mingo Junction
Julie Lynn Dinges, Dayton
Pamela Lynn Dorst, Bowling Green
Maureen Elizabeth Dowd, Worthington
Lisa Marie Edwards, Columbus
Lisa Ann Elbert, Elyria
Annaette Lynn Emery, Attica
Tammy Lyn Emich, Akron
Kathleen A. Engel, Kettering
Valerie Thompson Erwin, Columbus
Kristine Marie Fenstermaker, Champion
Elizabeth Dunaway Fraley, Cardington
Lisa Marie Fulks, Columbus
Leigh Andrea Gaddell-Newton, Columbus
Kimberly Sue Gant, Kettering
Cathryn Marie Guider, Chesterland
Tracey Lynn Hacker, Campbell
Laurie Lynn Halimi, Milford
Kathleen Matti, Brunswick
Kara Sue Hazeltine, Centerville
Lara Scott Hefner, Lima
Susan Lynn Henry, Westerville
Caroline Grace Hermsouza, Seven Hills
Kimberly Jane Hinsaw, Toledo
Karen Lynnette Hunt, Gahanna
Kimberly Susan Imperaza, Shadyside
Dorothy Mar Jackson, Cleveland
Lucretia Kelly, Cincinnati
Susan Joanne Kennedy, Bay Village
Lori Ann Knowles, Alliance
Gretchen Marie Koehler, Grove City
Ellen Ruth Kopel, Ossining, NY
Renee Marie Lange, St. Henry
Mary Beth Langen, Hilliard
Douglas Alan Lee, Columbus
Kimberly Jean Leek, Cincinnati
Sarah Marie Loh, Ashville
Laurie Susan Magyar, Orwell
Brenda Sue Manner, Sandusky
Sue Rebecka Sust Mautin, Gahdenhutten
Constance Marie McCourry, Canton
Jean Ann McGonagil, Butler
Kelly Ann McMeekin, Westerville
Karen Josephine Menezes, Columbus
Trisha Lynn Menuez, Berin
Natalie Kristin Millisor, Upper Arlington
Lorraine Jane Moehrmann, Columbus
Elaine Irene Moorman, St. Henry
Michelle Maria Morana, Strongsville
Regina Faye Morris, Westerville
Sharon Elizabeth Mramor, Highland Heights
Valerie Ann Munro, Lima
Rebecca Ann Nesse, Columbus
 Betty The Nguyen, Middletown
Jane Louise Olberding, Cincinnati
Kathleen Marie Parker, Delaware
Melanie Michelle Parmelee, Alexandria
Stephanie Lynn Pennington, Jackson
Lynda Rae Petty, East Springfield
Sheely Kathleen Phillips, Galena
Amy Sue Pottschmidt, Cincinnati
Karen Prazarcki, Aurora
Robin L. Rapkin, North Miami Beach, FL
Cheryl Lynn Reinbold, Warren
Paula Rouh, Richmondale
Julie Ann Schwartz, Youngstown
Donny Sue Sengel, Columbus
Sharon Renee Sigler, Wooster
Julie Kristine Skavali, Columbus
Robert Patrick Smails, Wooster
Kelly Marie Smith, Columbus
Susan Claire Snyder, Warren
Kimberly Sue Sonner, Hicksville
Kiran Elaine Srivastava, Hamilton
Pamela Rae Sinehart, Fostoria
Denise Ann Stoll, North Lawrence
Cynthia Ann Straus, Valley City
Linda R. Tokarsky, Gambier
Andrea Lee Valentine, Chillicothe
Michelle Marie Vinc, Yorkville
Carolyn Marie Wagner, Lima
Kathryn Jeanne Watkins, Medina
Jacqueline Michelle Weigand, Stonecreek
Jeni Jean Westler, Cuyahoga Falls
James Vernon Wiantd, Coshocton
Maria Lisa Wilkin, Cleveland
Wendy Suzanne Williams, Solon
Alicia Anne Williamson, Dublin
Cary Ann Winkelma, Shaker Heights
Karen Sue Wolfe, Plain City
Lisa Kristan Wolfe, Ashland
Pamela Sue Wolford, Stouvesville
Jessica Lynn Woodruff, Ashville

College of Optometry

Dean: Richard M. Hill

Doctor of Optometry

Mark Adam Beach, Fort Recovery
John Eric Beigel, Sidney
Theodore Melvin Brink, Napoleon
Thomas Michael Britton, Sulphur Springs
JoAnn Stoka Buckholz, Brook Park
Michael George Bufo, Canton
Carolyn Hinkle Clark, Huntington, WV
B.A. (West Virginia University); M.A. (Massachusetts University)
Jeffrey Wade Collins, Oxford
Karen Ann Creed, Aurora
Thomas Walter Cummings, Currancy, NY
B.A. (Eisenhower College)
John Joseph DeVito, Canton
Kurt Kristopher DeVito, Canton
Nathan H. Drum, Columbus
B.S. (Pennsylvania State University); M.S., Ph.D.
Jennifer Mary Fagedes, Cincinnati
Gregory Joseph Fargert, Youngstown
Richard Anthony Fenton, Portsmouth
Stephen Scott Fleck, Celina
Jeffrey C. Fogt, West Carrollton
B.S.
Maria Jeannette Fraga, Wintersville
Frederick Allen Frost, Wellington
H. Robert Gaetano, Campbell
Clarissa Ann Reber, Columbus  
Janet Ricci, Mentor  
Mary Elizabeth Ricketts, Orient  
Jennifer Anne Sagetetter, Columbus  
Kay N. Schamp, Columbus  
Sara Anne Schlachter, Toledo  
Teri Lee Sears, Marion  
Dale Lee Smallwood, Ashatabula  
Amy Eleanor Smith, Lancaster  
Karen Sue Stotts, Columbus  
Pamela Sue Strange, Lima  
Judith Ann Teach, Upper Arlington  
Joseph George Tomaszewski, Richmond Heights  
Robert Anthony Vosard, Columbus  
Virginia A. Wiseman, Columbus  
Roger Kenneth Wycoff, Jr., Columbus  
Bryan A. Zappulla, Columbus

**College of Veterinary Medicine**

Dean: Ronald A. Wright

**Doctor of Veterinary Medicine**

Daiquiri Beth Ahart, Berlin Center  
B.S.  
Barbara Alice Allen, Hampton Falls, NH  
B.S. (University of New Hampshire)  
Fred Owen Altizer, Centerburg  
Tracy Roberts Arvin, Fairfield  
B.S. (Miami University)  
Peter Anthony Averill, Danville, NH  
B.S. (University of Maine)  
Charles Irvin Bancroft, Beloit  
B.A. (Malone College)  
Jeffrey Alan Baranack, Youngstown  
B.S. (Kent State University)  
Linda Heckman Bayt, Wickliffe  
B.S. (John Carroll University); N.D. (Case Western Reserve University)  
Dusty Elaine Bechet, Cincinnati  
B.S.  
Richard Tod Beckett, Findlay  
B.A. (Denison University)  
Cathy Miriam Bill, Brooklyn, NY  
B.S. (Brooklyn College); M.S.  
Linda Miller Blakeley, Loonevile, WV  
B.S. (West Virginia University)  
George Vincent Bohart, Lincoln, NE  
B.S. (University of Nebraska-Lincoln)  
Joseph Paul Bonaquisti, Collinswood, NJ  
B.S. (Lebanon Valley College)  
Michael Alan Bowman, Walton, KY  
B.S. (University of Kentucky)  
Darla Anne Boyk, Peberville  
B.A. (Capital University)  
David William Brandstadt, Lima  
B.S. (Miami University)  
Julia Louise Brown-Herold, Stow  
B.S., M.S. (University of Akron)  
Cheryl Diane Burger, Dayton  
B.S. (Wright State University)  
Beverly Rischer Byrum, Grove City  
B.A., M.S.  
Thomas James Campagnolo, Bayonne, NJ  
B.S.  
Daniel Cowen Carey, Cincinnati  
A.B. (Miami University)  
Phyllis Ann Cirkot, Baltimore, MD  
B.A. (College of Notre Dame)  
Mark Howard Claus, Las Vegas, NV  
B.S. (University of Nevada-Reno)  
Chad Alex Current, Rosewood  
Robin Gail Davis, Cincinnati  
B.S. (University of North Carolina at Wilmington)  
Shelby Eileen Davis, Salem, WV  
B.S. (West Virginia University)  
Dana Marie Del Carlo, Virginia City, NV  
B.S. (University of Nevada-Reno)  
Bonnie Renee Dill, Chardon  
Lisa Marie Dombkowski, Oregon  
B.A. (Ohio Wesleyan University)  
Jeanne Abke Eisenhour, Pemberville  
Silvana Maria Epiphic, Hinckley  
B.S. (University of Akron)  
Amy Susan Farley, North Canton  
B.S.  
Julia Finlayson, Mansfield  
B.S.  
Gale Margaret Flanagan, Nutley, NJ  
B.S.  
Timothy Andrew Fouts, Cincinnati  
Ruth Ann Fox, Mason  
B.A. (Miami University)  
Pamela Sue Fritsch, Warren  
B.S.  
Susan Marie Gillespie, New London, NH  
B.S. (University of New Hampshire)  
Renee Golenz, Bellbrook  
John Grant Gordon, Bexley  
Susan M. Goss, Columbus  
B.A., M.S.  
James Paul Graf, Holdrege, NE  
B.S. ( Kearney State College)  
D. Conrad Griffith, Chagrin Falls  
B.S. (Miami University); M.S. (Michigan State University)  
Daniel Lee Grooms, Chesterville  
B.S. (Cornell University)  
Diane Kathleen Gross, Morgantown, WV  
B.S. (West Virginia University)  
Karen Lee Gross, Pembroke, NH  
B.S. (College of William & Mary)  
Alec Stone Hall, Miamisburg  
Anne Elizabeth Hallock, Tallmadge  
B.S.  
Joshua Mark Halper, Piscataway, NJ  
B.S. (Rutgers University); M.S. (Michigan State University)  
Kathy Lee Hamilton, Westlake  
B.S., M.S.  
Michael Brian Havens, Worthington  
Robert Douglas Hoste, Highland Heights  
B.S., M.S. (John Carroll University)  
Mary Jo Howe, Fremont, NE  
B.A. (University of Nebraska-Lincoln)  
Brian Thomas Huss, Centerville  
B.S.  
Alice Novotny Jeromin, Hinckley  
B.S. (University of Toledo)  
Randall William Kantzer, Marion  
Victor Stewart Katz, Kensington, MD  
B.S. (University of Maryland)  
Sandria Jane Ketchum, Columbus  
Karen Lynne Kline, Ipswich, MA  
B.S. (Iowa State University)  
Terence Raymond Kline, Atwater  
B.S. (Mount Union College); M.S. (University of Arizona)  
Julie Ann LaForge, Des Plaines, IL  
B.S., M.S. (University of Illinois)  
Linda Bosetti Lehmkuhl, Lutherville, MD  
B.S. (Virginia Polytechnic Institute and State University)  
Colleen Rene MacNinis, Centerville  
B.S.  
Victoria Lea Madwar, Columbus  
B.S.  
Michael Marino, Maple Heights  
Pamela Ann Marts, Cincinnati  
B.S.  
Timothy Owen Mason, Toledo  
Anthony Brian McCorkle, Reno, NV  
B.S. (University of Nevada-Reno); B.S.  
Linda Jean McFall, Toronto  
B.S. (University of Steubenville); M.S. (Youngstown State University)  
Daniel Hocks Meakin, Cincinnati  
B.S. (University of Notre Dame)  
David Michael Miller, Chagrin Falls  
B.S. (Ohio University)  
Rustin MacArthur Moore, Spencer, WV  
B.S. (West Virginia University)  
Dolores A. Moran, Elytic City, MD  
B.S. (Cornell University)
Megan Mowrey Moran, Point Pleasant, WV
B.S. (Marietta College)

Kimberly Lynn Moulton, Columbus B.S. (Miami University)

Sue Ellen Mowcomber, Amherst
B.S. (Miami University)

Michael Eugene Mull, Wauseon B.S.

Sally Lynne Sifferlin, New Philadelphia B.S. (Cleveland State University)
Marianne Cerylly Skebe, Highland Heights B.S. (Cleveland State University)

Katherine C. Smith, Fairborn B.S. (Miami University); M.S. (Wright State University)

Robin Edith Smith, Bellevue B.S.

Stewart Shannon Smith, Cincinnati B.A. (George Washington University); M.S., Ph.D. (George Washington University)

Kevin James Soncrant, Oregon B.S.

Samuel Wallace Speck III, New Concord B.A. (Earlham College)

Donald Frederick Swerida, Wall Township, NJ B.S. (Monmouth College)

Lisa Jane Taylor, Ashland B.S.

Kent Alan Thompson, Carrollton B.S.

Virgil Dale Tongish, Marshallville B.A. (Otterbein College)

Jeffrey Ray Towery, Dayton B.S. (Wright State University)

Tammy Dee Trout, Nelsonville B.S. (Ohio University)

Juan Vera-Gonzalez, Yauco, PR B.S. (University of Nebraska-Lincoln)

Robin Elizabeth Wall, Lincoln, NE B.S. (University of Nebraska-Lincoln)

Heidi D. Ward, Fairview Park

Marc Alan Werthaiser, Cincinnati B.S. (University of Cincinnati)

Cynthia Ann White, Westlake B.A., B.A. (Mercyhurst College)

Lisa Marie Wickizer, Hebron B.A. (Transylvania University)

Brenda Sue Witzel, Omaha, NE B.S. (University of Nebraska-Lincoln)

Donna Jean Woelfel, Cincinnati B.S.

Timothy Scott Woodruff, Columbus

Graduates with Honors

Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class.

Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with circulcar distinction and dedication to high educational goals.

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Chemistry

Partha Shankar Nandi

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in English

Dianne Kay Blankenhaker

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics

Lori Lynn Schwendeman

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Molecular Genetics

Lori Michelle Vance

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Psychology

Stephen Lee Crites, Jr.
Timothy David Poland

Summa Cum Laude with Distinction in Agricultural Economics

Darcy Ann Hartman
Teri Ann Kraus

Summa Cum Laude with Distinction in Anthropology

Susan Elaine Long

Summa Cum Laude with Distinction in Civil Engineering

Dante Toby Zettler
Summa Cum Laude with Distinction in Classics
Kimberly Ann Salamon-Smith

Summa Cum Laude with Distinction in Dance
Deborah Marie Downs

Summa Cum Laude with Distinction in English
D. Scott Powell

Summa Cum Laude with Distinction in Fisheries Management
Craig Dean Brechbuhler

Summa Cum Laude with Distinction in Food Science and Nutrition
John Kevin Bailey

Summa Cum Laude with Distinction in Industrial and Systems Engineering
Donald Paul Waring

Summa Cum Laude with Distinction in International Studies
Julia Anne Paxton

Summa Cum Laude with Distinction in Mechanical Engineering
Joseph Paul Jira

Summa Cum Laude with Distinction in Medical Dietetics
Anne Frances Burns

Summa Cum Laude with Distinction in Metallurgical Engineering
Mark Andrew Harper

Summa Cum Laude with Honors in the Liberal Arts
Kimberly Denise Haldeman
Bonnie Lynn Hansen
George Jeffrey Harper
Randall James Harris
Diane Marie Hemmelgarn
Wendi N. Higgins
Patricia Ann Hill
Sharon Goldhardt Huffman
Kenneth James Hydak
Kaisera Jamil
Carol Pfender Jernigan
Donna Rae Johnson
Patricia Marie Kinneer
James Patrick Kleika
Stephanie Robin Kovac
Rebecca M. Kummerer
Tammi Jo Kurty
Thaddeus J. Kwiatkowski
Ruth Ann Lada
Karen Marie LaFacc
Robert Michael Latin
Linda Bonnert Lehmkuhl
Jennifer Lee Lemyster
Mary Margaret Likko
Lori Ann Little
Cynthia B. Logan
Christopher Jay Lynn
Marjorie Lynn Mapes
Becky Lynn McGunny
Tracy Lynn McCreery
Kathleen Joan Mcgrath
Loh Joo Meng
Paul Franklin Moodispaw
Rustin MacArthur Moore
Shannon Marie Mullins
Jeffrey Lawrence Murphy
Daniel Ernest Neely
James Richard Neikirk
Mark Douglas Niemczyk
Alan Michael Norton
Keith Edward O'Hara
Elizabeth Ann Overly
Steven Robert Phillips
Michael Gerard Poss
Michael James Preston
John William Pruitt
Janet Ricci
Elizabeth Elaine Rick
Frank Joseph Rieman
Martin A. Riley
Marites Rivera
Kassandra Diane Robenalt
Bonnie Robin Rush
Kay N. Schamp
Stephanie Kaye Scherger
Kevin Richard Schockling
Jarden Elizabeth Schoeff
Angela Marie Selby
Donna Lynn Solinski
Kimberly Sue Sonner
Gregory Todd Steinmetz
William Ronald Stevens
Debra Kay Ray Swearengen
Peter Joseph Torok
Saldor Bernard Trinidad
Daniel Craig Trounber
Sot Alan Turkovics
Lisa Kay Wallace
Jill Suzanne Weiner
Mary Elizabeth Welling
Virginia A. Whisman
David Bruce White
Melinda Dawn Whittington
Anna Marie Woodson
Robert William Yarrington
Dorthea Yoakum
James Robert Young
Vicki Ann Young

Cum Laude
with Honors in the Liberal Arts
and with Distinction in Biology
Deborah Lynn Shardy

Cum Laude
with Honors in the Liberal Arts
and with Distinction in English
Maryellen Corna

Cum Laude
with Honors in the Liberal Arts
and with Distinction in Microbiology
Laura Marie Tubela

Cum Laude
with Honors in the Liberal Arts
and with Distinction in Philosophy
Trenton Douglas Merricks II

Cum Laude
with Honors in the Liberal Arts
and with Distinction in Psychology
John Merrit Ernst

Cum Laude
with Distinction and Honors in Pharmacy
Barbara Ann Bryson
Michael Anthony Ihnat
Joy Dianne Richerson
Dhanawanti Jagadish Sant

Cum Laude
with Distinction in Accounting
David Christopher Martin

Cum Laude
with Distinction in Chemistry
John Merrit Ernst

Cum Laude
with Distinction in Electronic Music Composition
David Thomas Railey

Cum Laude
with Distinction in Engineering Physics
William Wesley Dixon

Cum Laude
with Distinction in Environmental Interpretation
Juliet Wyleen Ballinger

Cum Laude
with Distinction in Food Science and Nutrition
Tracey Leanne Britton
Anahita Keyhani

Cum Laude
with Distinction in Horticulture
Dwight Raymond Tingley

Cum Laude
with Distinction in Industrial and Systems Engineering
Setiadi Widaja

Cum Laude
with Distinction in Immunology
Michael Scott Kinch

Cum Laude
with Distinction in Mechanical Engineering
Douglas Lemoyné Straub

Cum Laude
with Distinction in Nutrition
Vincent Frank Ferrini III
Matthew Stevenson Wayne

Cum Laude
with Distinction in Photography and Cinema
Thomas Alan Baumann
Scott Jeffrey Manders

Cum Laude
with Distinction in Physical Therapy
Patricia Jo Estes

Cum Laude
with Distinction in Psychology
Eric Gray Myers

Cum Laude
with Distinction in Spanish
Margaret Mary Olsen

Cum Laude
with Distinction in Textiles and Clothing
Leila Ruth Bardill

Cum Laude
with Distinction in Wildlife Management
Lucinda Gay Harper

Cum Laude
with Honors in the Liberal Arts
Deborah Lynne Beckerich
Geneva Maureen Buckholz
Lisa Ann Cobourn
Jennifer Susan Falk
Christine Anne Gayton
Nicole Linda Kelsey
Nancy Paula Lazar
M. Bridgette Marlee
Thomas Dean McKinley
Valerie Lynn Merklin
Thomas Mlakar
William Howard Musolf
Susan Reneé Opalainik
Stanley Joseph Rapiey
Jennifer Lynn Rusnak
Arthur Grant Stephens
Charles Patrick Sweeney
Martin Turrn
Anju Tripathi

Cum Laude
with University Honors
Mekonnen Gebreassel Abraham
John Charles Beck
Melanie Lee Bente
Gregory Scott Boyer
Nancy Jayne Briton
Mary Elizabeth Broderick
Nancy Wilson Brownell
Bonnie L.B. Butcher  
Linda More Cole  
Douglas Jay Dupler  
Michael Joseph Ferguson  
Nancy Anne Fleming  
Ronald Steven Fritsch  
Laura Anne Hause  
Scott Allan Jones  
David Robert Kirkey  
Laura Ann Kozel  
Stephen Joseph Krak  
Wende Lance  
Susan Kay Longshore  
Diana Lynn Martin  
Joseph Peter Maslar  
Martin Edward Piccus  
Kyle Edward Richie  
Mark Anthony Russell  
Robert A. Segovia  
Denise Ann Silon  
Steven William Stitt  
Thomas Kazushige Sugimoto  
Jonathan Martin Vinson  

With Honors in the Liberal Arts  
and with Distinction in Cognitive Science  
James McDowell Beale  

With Honors in the Liberal Arts  
and with Distinction in English  
Emily Magdalene Mott  

With Honors in the Liberal Arts  
and with Distinction in Psychology  
Karen Ann Kehres  
Cynthia Ann Shelton  

With Distinction in Agronomy  
Robert Arthur Bouic  

With Distinction in English  
Craig Brendan Jacobsen  

With Distinction in Environmental Interpretation  
Debra S. Britton  

With Distinction in Fisheries Management  
Craig Thomas Mallison  

With Distinction in Mechanical Engineering  
Richard Edward Delebantry  
Scott Eric Post  
Vinh Kim Tran  

With Distinction in Natural Resources Development  
Dennis Michael Dooly  
Scott Traylor Morris  

With Distinction in Nutrition  
Ryan Paul Hanson  

With Distinction in Parks and Recreation Administration  
Laurie Ann Gallagher  

With Distinction in Personalized Studies  
Rhonda L. Steakley  

With Distinction in Physical Education  
Nicolette Marie Lucas  

With Distinction in Poultry Science  
Paul Franklin Best  

With University Honors  
Harold James Anderson Ill  
James Phillip Bentley  
Martin Van French  
Michael Lawrence Hitzhusen  
Gayle Ann Horton  
Tamara Therese Parson  
James I. Rodriguez  
Christiannne Leigh Smith  

With Honors in the Liberal Arts  
Suzanne Michele Adams  
Lisa Fay Cribbs  
Paige Anne Crossley  
William Paul DeMora  
Ondrea Alexis Dutro  
Bradley David Egbert  
Daniel W. Elwell  
Ann Margaret Gamertsfelder  
Joseph Lee Koen  
Robert J. Lavagna  

Stephen Todd Lingo  
Matthew David McDaniel  
Kristine Maria Meyer  
Fredrick Mark Reeve  
Ingrid Karen Ruf  
Scott Patrick Santee  
Gail Suzanne Stennett  
John David Sullivan  
David James Welty  
Karen Elizabeth Widder  
Jill Ann Wolfram  

Cum Laude  
Victoria Lynne Adams  
Margaret Harriet Antill  
Charles Edward Armstrong  
Phyllis Joy Atkinson  
Linda Kay Bate  
Karen Sue Barnes  
Tina K. Bavelis  
Jeffrey Walton Bell  
Kimberly Ann Bell  
David Andrew Bennett  
Lori Anne Bennett  
Christopher John Binder  
Donald Alan Buchler  
Kathleen Ann Boes  
Joseph Paul Bonaquisti  
Julianne M. Brink  
Michael John Britsch  
Mary Anne Brown  
Julia Louise Brown-Herold  
Michael George Buffo  
Jeffery Scott Burtis  
June Kathryn Campbell  
Kevin Giles Campbell  
Marie Wallace Campbell  
Kimberly Jean Carroll  
Laurie Lynn Cormak  
Linda Sue Chaffin  
Cindy Lee-Sling Chang  
Edith Chang  
Jayne Ellen Charman  
John Tilman Childs  
Phyllis Ann Ciekot  
Christine Louise Clark  
Tracy Lee Click  
Kari Michelle Cline  
Kevin Ernest Cline  
Joanne Marie Cline  
Lauren Hope Cohen  
Kelly Ross Cole  
Karim Jean Cook  
Kelley Martin Cousin  
Thomas Matthew Cox  
Jennifer Elizabeth Craig  
Stephen Allan Crane  
Timothy Colin Crawford  
Rod C. Crider  
Martin Bryant Crombie  
Timothy Lisl Cupp  
Chad Alex Current  
Michael David Curtis  
Cheri Cirus  
Stephen Wayne Dailey, Jr.  
Debra Ann Daniel  
William Michael Davis  

1306
Page 1308 is blank
The Board of Trustees met at its regular monthly meeting on Friday, June 2, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

** ** **

Minutes of the last meeting were approved.

** ** **
June 2, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on June 2, 1989, at 1:10 p.m. He requested the Secretary to call the roll.


--0--

COMMITTEE APPOINTMENTS 1989-90

Resolution No. 89-116

WHEREAS the appointments to Committees and representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1989-90 are as follows:

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chairman</th>
<th>Vice Chairman</th>
<th>Ex Officio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Affairs</td>
<td>Deborah E. Casto</td>
<td>Hamilton J. Teaford</td>
<td></td>
</tr>
<tr>
<td></td>
<td>John J. Barone</td>
<td>John J. Barone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laurel A. Davis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments Committee</td>
<td>John W. Kessler</td>
<td>Shirley D. Bowser</td>
<td>Milton A. Wolf</td>
</tr>
<tr>
<td>Standing Committee on Agricultural Affairs</td>
<td>Shirley D. Bowser</td>
<td>Steven D. Maurer, Ex Officio</td>
<td>Deborah E. Casto</td>
</tr>
<tr>
<td>Student Affairs</td>
<td>John J. Barone</td>
<td>Leslie H. Wexner</td>
<td>New Trustee</td>
</tr>
<tr>
<td></td>
<td>John J. Barone</td>
<td>Sophia L. Paige</td>
<td></td>
</tr>
<tr>
<td>Fiscal Affairs</td>
<td>John W. Kessler</td>
<td>Milton A. Wolf</td>
<td>John W. Berry</td>
</tr>
<tr>
<td>Personnel Committee</td>
<td>John W. Berry</td>
<td>Shirley D. Bowser</td>
<td>Hamilton J. Teaford</td>
</tr>
<tr>
<td>Development Fund Board of Directors</td>
<td>Deborah E. Casto</td>
<td>(1989-91)</td>
<td>Leslie H. Wexner (1989-91)</td>
</tr>
<tr>
<td>Inter-University Council</td>
<td>New Trustee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Foundation Board of Directors</td>
<td>John J. Barone</td>
<td>(1987-90)</td>
<td></td>
</tr>
<tr>
<td>University Hospitals Board</td>
<td>Shirley D. Bowser</td>
<td></td>
<td>Hamilton J. Teaford</td>
</tr>
</tbody>
</table>

1310
June 2, 1989 meeting, Board of Trustees

COMMITTEE APPOINTMENTS 1989-90 (contd)

University Foundation Board of Directors
Milton A. Wolf
John W. Kessler*

Ohio State University Affiliates, Inc.
John W. Berry (term 1 year)
Shirley D. Bowser (term 2 years)
Hamilton J. Teaford (term 3 years)

*Executive Committee

NOW THEREFORE

BE IT RESOLVED, That the Committee appointments and the representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1989-90 are hereby ratified and confirmed.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

I would like to report on the Research Foundation grants and contracts for the month of April 1989, which are shown in the Board agenda book. There are 100 awards listed which provide a gross income of $6.0 million.

Funding for the first ten months of the fiscal year is 16 per cent ahead of the same period last year. Increases are noted for each of the funding sectors with the Federal Government and Industrial areas leading the way.

Some highlights of awards are:

$174,000 from the Cincinnati Public Schools to the Center on Education and Training for Employment for a Review of Vocational Education Programs.

$155,000 from the National Science Foundation to the Department of Psychology for a study on the basis of human emotion.

$150,000 from the National Science Foundation to the Department of Mechanical Engineering for a study on glass to metal sealing.

$120,000 from the American Heart Association to Professor Fred Cornhill for a study of fluid mechanic forces and heart disease.

Thank you. That concludes my report. Dr. Tom Sweeney of the Office of Research and Graduate Studies, is available to answer any specific questions you may have.

--0--
HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The University Hospitals Board and two of its standing committees met on Thursday, May 25.

The Professional Affairs/Education/Research Committee received updates on medical staff activities and on protocol for reports to the Joint Commission on Accreditation of Healthcare Organizations. We reviewed the Dodd Hall Program Evaluation, which identifies the results and effects of rehabilitation services and is used in making future decisions for that facility. Medical Director, Dr. Hagop Mekhjian, reported that University Hospitals' mortality rates are the lowest in Central Ohio, lowest among Big 10 university hospitals, rank among the best in the nation, and are more favorable than many of this country's most prestigious hospitals. I think it is particularly interesting to note that we are the lowest in Central Ohio, as we are a tertiary care hospital. Which means the sickest people and the persons with the most severe injuries come to us; nevertheless, the likelihood of leaving the hospital alive is higher at Ohio State Hospital than any other hospital in this area. I think that is a particularly remarkable statistic. It seems to me that the principle goal of all patients is to leave. It is fascinating to see the comparison with our absolute peers -- the Big 10 hospitals -- as well as the other outstanding hospitals.

President Jennings:

Yes, in the end this is how you really measure the quality of the hospital. You can talk about research grants and Nobel prize winners, but if I go in a place, I want to come out well.

Mr. Teaford:

Also, the Administrative/Operations Committee received an initial plan for reducing the Hospitals' accounts receivable by ten days -- which is roughly 10 percent -- during the fiscal year ending June 30, 1990. And, I might say that this is a very well thought out plan which we were all very pleased to see. And it does indeed have periodic progress points within the year, so that we will be able to chart whether indeed we are achieving that goal of reducing the accounts receivable time and therefore, obviously, increasing the amount of funds that the Hospitals has available.

The primary agenda issue of the Committee was the review of the Hospitals' proposed 1989-90 operating budget. After lengthy discussion, the Committee endorsed the budget and recommended approval by the Hospitals Board. The proposed operating budget calls for an overall average rate increase of 9.9 per cent effective July 1, 1989. And everyone wanted to emphasize this -- that they assume the University's Early Retirement Program will not continue.

President Jennings:

But, I think it is important, also, to recognize that the University's Early Retirement System is a self-funding operation and has a payback of approximately 18 months for the entire institution.
June 2, 1989 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford:

But the way they account for it, it is a full hit up front -- which is more accounting principles that we don't understand.

President Jennings:

That is exactly right. It is accounting principles that are discouraging us from making savings.

Mr. Teaford:

The Hospitals Board meeting, which followed the Committee meetings, included updates on the medical center development activities and progress toward consolidating patients' bills into a single statement. And, I would just add that it would appear now that we will, within a very short time, achieve a single statement for all patients. I am totally optimistic on that score, which has not always been my feeling. I think we can be very pleased by the progress that we have had and the outstanding cooperation by the doctors in this regard.

The proposed 1989-90 operating budget was then endorsed by the Hospitals Board and recommended to the President and us.

Dr. George Kaye gave progress reports on the design of the psychiatric facility -- which I might point out has not yet been funded -- and preparation of a Certificate of Need for the Medical Logistics II project. This includes the new Surgical Intensive Care Unit at a level which is satisfactory to the surgeons, and two additional shelled-in floors -- which basically means they are empty.

Mr. Jack Riddles reported that bids have been received for work on the first and second floors of Dodd Hall, as part of the Dodd/Davis Interface project. Dodd Hall, if you will remember, is the rehabilitation facility. A program of requirements and schematic drawings for the third and fourth floors of Dodd Hall are being developed.

Dr. Charles Mueller gave a very interesting presentation on digitizing x-rays. And, Dr. Kramer and Jack Havens were re-elected as the Hospitals Board Chairman and Vice Chairman, respectively. That completes my report, Mr. Chairman.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee heard the Endowment Investment Report, which showed a market value of $277.8 million, as of May 19, which is $30 million above the market value last June 30.

We also reviewed and discussed the report on Real Estate Investments presented by Mr. Nichols, which classified the Endowment's $36.5 million in real estate investments into three categories: University area holdings ($13.8 million), properties along State Route 161 ($20.43 million) and those awaiting sale ($2.26 million). Each property is appraised at least every two years.
June 2, 1989 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

Mr. Kessler: (contd)

Mr. Nichols reported on the status of the Ramada Hotel property, whose stock was a gift to the Endowment. The renovation work will be completed with the opening of the restaurant and lounge scheduled for June 23. The transformation, which is ahead of schedule and within budget, has created a top rate addition to the University corridor. That completes by report, Mr. Chairman.

(See Appendix LIV for complete text of The Ohio State University Endowment Summary, May 19, 1989, page 1379.)
(See Appendix LV for chart on The Ohio State University Endowment Fund -- Real Estate Investments, page 1391.)

--0--

ACADEMIC AFFAIRS COMMITTEE

Ms. Casto:

This morning we received a report about the Promotion and Tenure process here at The Ohio State University. As Dr. Brand and others explained to us, this is a long and involved process that does not take place overnight. It takes careful consideration from each and every college, as well as outside the colleges where people are recommended for the tenure process, and even outside of this campus. It really is time consuming and involved. We were given charts and grafts showing how it goes from each individual college to the dean, then to the Provost, and of course the final decision is handed down.

(See Appendix LVI for charts on The Ohio State University Promotion and Tenure Process, page 1393.)

--0--

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

APPROVAL OF APPOINTMENT

Resolution No. 89-117

Synopsis: The Academic Affairs Committee recommended the appointment of President Edward H. Jennings to serve on the Board of Directors of the Ohio Aerospace Institute.

WHEREAS the State of Ohio has established an Ohio Aerospace Institute as a statewide resource designed to place Ohio's graduate degree granting engineering universities in the forefront of aerospace research and graduate education; and

WHEREAS the Ohio Aerospace Institute will conduct research and other programs of interest and assistance to faculty and students at The Ohio State University; and
June 2, 1989 meeting, Board of Trustees

APPROVAL OF APPOINTMENT (contd)

WHEREAS the Ohio Aerospace Institute is a separately incorporated institute; and

WHEREAS Dr. Edward H. Jennings, as President of The Ohio State University, has been invited to serve on the Board of Directors of the Ohio Aerospace Institute; and

WHEREAS his presence on that Board of Directors would be of benefit to the interests of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That the President represent the University on the Board of Directors of the Ohio Aerospace Institute, as part of his service on behalf of The Ohio State University.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

President Jennings:

The reason for asking your permission -- this is a combined program for the Ohio Board of Regents and NASA-Lewis in Cleveland, to generate a Ph.D. program eventually in aerospace. It will be governed by deans of engineering and university presidents. We are asking you to appoint me to this position so that in my capacity as a Board member they are covered under the Court of Claims law of the State of Ohio. The essential reason is so that we don't have to have D & O insurance in this organization.

--0--

HOSPITALS BOARD APPOINTMENT

Resolution No. 89-118

Synopsis: The Academic Affairs Committee recommended the approval of emeritus status to a Hospitals Board member.

WHEREAS pursuant to bylaw 3335-93-01 of the University Hospitals Board Bylaws, the Board of Trustees may designate emeritus Hospitals Board members; and

WHEREAS Robert M. Duncan has had a long and loyal association with this University and with University Hospitals; and

WHEREAS he was one of twelve citizen members originally appointed to the Hospitals Board and was elected as the Board’s first Chairman; and

WHEREAS his dedicated service, commitment and contributions to the Hospitals Board have been noteworthy:

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Hospitals Board and the President, the title of Hospitals Board Member Emeritus be conferred upon Judge Robert M. Duncan, effective May 1, 1989.
June 2, 1989 meeting, Board of Trustees

HOSPITALS BOARD APPOINTMENT (contd)

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

HOSPITALS BOARD REAPPOINTMENTS

Resolution No. 89-119

Synopsis: The Academic Affairs Committee recommended the approval of reappointments of eight Hospitals Board members.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

WHEREAS the terms of eight of the members selected from the general public have expired:

NOW THEREFORE

BE IT RESOLVED, That the following general public members be reappointed to the Hospitals Board for a period of three years, effective as noted:

Morris S. Rosenblum, M.D. - May 1, 1987 (third three-year term)
Arthur I. Vorys - May 1, 1988 (third three-year term)
John R. Hodges - May 1, 1988 (third three-year term)
John F. Havens - May 1, 1989 (second three-year term)
Susan J. Insley - May 1, 1989 (second three-year term)
John G. Kramer, D.D.S. - May 1, 1989 (second three-year term)
Donald B. Shackelford - May 1, 1989 (second three-year term)
Pete A. Klisesares - May 1, 1989 (third three-year term)

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

Honorary Degree

Background

Elizabeth H. Dole

Elizabeth Dole was sworn in by President Bush as the 20th Secretary of Labor in a ceremony at the Labor Department's headquarters on January 30, 1989.

As a member of the Cabinet, Mrs. Dole serves as the President's chief advisor on labor issues, as well as a key economic policy advisor. She guides a federal agency of nearly 19,000 employees, with a budget of more than $31 billion.
June 2, 1989 meeting, Board of Trustees

Honorary Degree (contd)

Background (contd)

Elizabeth H. Dole (contd)

The laws enforced by the department range from child labor prohibitions to the security of retiree pensions.

Secretary Dole is responsible for protection of the wages, health and safety, and employment rights of working people; administering job training, unemployment insurance and workers' compensation programs; promoting equal employment opportunity; collecting, analyzing and publishing labor statistics, and strengthening free collective bargaining.

Secretary Dole is determined:

To ensure that American workers are the world’s best trained and most highly skilled, placing special emphasis on the disadvantaged;

To develop policies that make work and family complementary;

To establish sound and comprehensive pension and retirement policies;

To see that the American workplace is as safe, as healthy, and as secure as we can make it, and

To encourage management and labor to continue to move beyond confrontation and conflict and to work together on behalf of interests held in common.

As the longest-serving Secretary of Transportation -- from February 1983 until October 1987 -- Elizabeth Dole made safety her highest priority. Thanks to that commitment, and the changes she made at the Department of Transportation, the United States enjoyed the safest years in its history in all three major transportation areas -- rail, air and highway.

Bringing the same commitment to the Labor Department, Mrs. Dole has effectively worked to assure the safety and health of every worker in America -- whether on offshore drilling rigs, in aircraft at 35,000 feet, or in mines miles underground.

Prior to joining President Reagan's Cabinet, Mrs. Dole was Assistant to the President for Public Liaison at the White House. From 1973 until 1979, she served as a member of the Federal Trade Commission. Her public service has also included Presidential appointments as Executive Director of the President's Committee on Consumer Interests and as Deputy Special Assistant to the President for Consumer Affairs.

Mrs. Dole graduated with distinction in political science from Duke University, where she was president of the student government and elected to Phi Beta Kappa. She received her law degree from Harvard Law School and a master's degree in education and government from Harvard University.

Mrs. Dole currently serves as honorary chairman of the Board of Overseers at Duke Comprehensive Cancer Center, and is a member of the Visiting Committee of Harvard University's John F. Kennedy School of Government. She recently received the Humanitarian Award from the National Commission Against Drunk Driving.
June 2, 1989 meeting, Board of Trustees

Honorary Degree (contd)

Background (contd)

Elizabeth H. Dole (contd)

A native of Salisbury, North Carolina, Mrs. Dole was named in 1988 by the Gallup Poll as one of the world's ten most admired women.

HONORARY DEGREE

Resolution No. 89-120

Synopsis: The Academic Affairs Committee requested approval to award an honorary Doctor of Laws degree to Elizabeth H. Dole.

WHEREAS pursuant to paragraph (C) of rule 3335-3-03 of the Administrative Code, the President, after consultation with the Steering Committee of the University Senate, recommended to the Board of Trustees awarding of an honorary degree as listed below:

Elizabeth H. Dole

Doctor of Laws

NOW THEREFORE

BE IT RESOLVED, That the above honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS

Resolution No. 89-121

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the May 4, 1989 meeting of the Board, including the following Changes in Title, Appointments, Concurrent Appointment, Appointment of Chairpersons of Departments and Division and Directors of Centers, and Reappointment of Chairpersons of Departments and Division and Director of School, Leaves of Absence Without Salary, Leave of Absence Without Salary--Continuation, Professional Improvement Leaves, Professional Improvement Leave--Change of Dates, Professional Improvement Leaves--Cancellations, Promotions/Tenure, Emeritus Title, and Emeritus Title--Cancellation as detailed in the University Budget be approved and the Medical Staff Appointments approved April 27, 1989, by the Hospitals Board be ratified.

Changes in Title

Name: FREDERICK E. HUTCHINSON
Title: Acting Vice President for Academic Affairs and Provost
Office: Academic Affairs
Effective: July 1, 1989
Present Position: Vice President and Executive Dean, Agricultural Administration, College of Agriculture
PERSONNEL ACTIONS (contd)

Changes in Title (contd)

Name: JAMES E. MEEKS
Title: Special Assistant to the President (Legal Affairs) and Professor
Office/College: President's Office/Law
Effective: Immediately
Present Position: Acting Special Assistant to the President (Legal Affairs) and Professor, College of Law

Appointments

Name: PAUL E. KAPLAN
Title: Professor (The Bert C. Wiley Professorship in Physical Medicine and Rehabilitation)
Department: Physical Medicine and Rehabilitation
Effective: August 25, 1989
Salary: $100,080.00
Present Position: Professor and Chairman, Department of Physical Medicine and Rehabilitation, University of Missouri-Columbia, and Medical Director, Howard A. Rusk Rehabilitation Center, Columbia, MO

Name: THOMAS L. SPORLEDER
Title: Professor (The Farm Income Enhancement Endowed Chair in Agricultural Policy, Trade and Marketing)
Department/Center: Agricultural Economics and Rural Sociology/Ohio Agricultural Research and Development Center
Effective: June 1, 1989
Salary: $86,040.00
Present Position: Professor, Department of Agricultural Economics, Texas A&M University, College Station, TX

Concurrent Appointment

Name: CHARLES F. BENDER
Title: Director
Office: Academic Computing
Effective: April 4, 1989
Salary: N/A
Present Assignment: Director of the Ohio Supercomputer Center and Professor of Chemistry (no change)

Appointment of Chairpersons of Departments and Division and Directors of Centers

July 1, 1988 through June 30, 1989

Division of Mining Engineering
George R. St.Pierre

January 1, 1989 through December 31, 1989

Center for Comparative Studies
Barbara H. Rigney*
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Departments and Division and Directors of Centers (contd)

<table>
<thead>
<tr>
<th>Department</th>
<th>Appointment Dates</th>
<th>Chairperson/Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>July 1, 1989 through June 30, 1990</td>
<td>Robert Shay</td>
</tr>
<tr>
<td>Botany</td>
<td>July 1, 1989 through June 30, 1993</td>
<td>Tod F. Stuessy</td>
</tr>
<tr>
<td>Zoology</td>
<td></td>
<td>Peter W. Pappas</td>
</tr>
<tr>
<td>Melton Center for Jewish Studies</td>
<td>October 1, 1989 through September 30, 1990</td>
<td>Tamar Rudavsky*</td>
</tr>
<tr>
<td>Slavic and East European Languages and Literatures</td>
<td></td>
<td>David F. Robinson*</td>
</tr>
<tr>
<td>History</td>
<td>October 1, 1989 through September 30, 1993</td>
<td>Joseph H. Lynch</td>
</tr>
</tbody>
</table>

*Acting Chairperson or Director

Reappointment of Chairpersons of Departments and Division and Director of School

<table>
<thead>
<tr>
<th>Department</th>
<th>Appointment Dates</th>
<th>Chairperson/Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre</td>
<td>July 1, 1989 through June 30, 1992</td>
<td>Firman H. Brown, Jr.</td>
</tr>
<tr>
<td>School of Allied Medical Professions</td>
<td>July 1, 1989 through June 30, 1993</td>
<td>Stephen L. Wilson</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td></td>
<td>Jacques L. Zakin</td>
</tr>
<tr>
<td>Division of Hospital and Health Services</td>
<td></td>
<td>Stephen F. Loebs</td>
</tr>
<tr>
<td>Administration</td>
<td></td>
<td>John N. Reeve</td>
</tr>
<tr>
<td>Microbiology</td>
<td></td>
<td>Jackie D. Wood</td>
</tr>
<tr>
<td>Physiology</td>
<td></td>
<td>Henry A. Nasrallah</td>
</tr>
<tr>
<td>Psychiatry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td>October 1, 1989 through September 30, 1991</td>
<td>Randall B. Ripley</td>
</tr>
<tr>
<td>Computer and Information Science</td>
<td>October 1, 1989 through September 30, 1993</td>
<td>Mervin E. Muller</td>
</tr>
<tr>
<td>Judaic and Near Eastern Languages and Literatures</td>
<td></td>
<td>Frederic J. Cadora</td>
</tr>
</tbody>
</table>

1320
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary

FRANK E. BLOCK, Assistant Professor, Department of Anesthesiology, effective April 1, 1989, through June 30, 1989, to serve as a consultant at Datex Instrumentarium in Finland.

JAMES H. HUTCHISON, Assistant Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, for personal reasons.

Leave of Absence Without Salary--Continuation

CHERYL M. GAIMON, Associate Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, for personal reasons.

Professional Improvement Leaves

ALBERT L. CLOVIS, Associate Dean and Newton D. Baker--Baker & Hostetler Professor in Law, College of Law, effective Autumn Semester 1989 and Spring Semester 1990.

FRANCIS R. ALAIRE, Professor, Department of Dairy Science, effective January 1, 1990, through June 30, 1990.

JACK M. BALCER, Professor, Department of History, effective Winter Quarter and Spring Quarter 1990.

NECIP BERME, Professor, Department of Mechanical Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

RICHARD N. BOYD, Professor, Departments of Physics and Astronomy, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ROBERT S. BRODKEY, Professor, Department of Chemical Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ALLAN M. BURKMAN, Professor, Division of Pharmacology, effective September 1, 1989, through July 31, 1990.

REINHART F. BUTTER, Professor, Department of Industrial Design, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

BERNARD L. ERVEN, Professor, Department of Agricultural Economics and Rural Sociology, effective September 1, 1989, through May 31, 1990.

TIMOTHY E. HERON, Professor, Department of Educational Services and Research, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JOHN C. HUNTINGTON, Professor, Department of the History of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ROBERT E. JACOBSON, Professor, Department of Agricultural Economics and Rural Sociology, effective September 15, 1989, through June 15, 1990.

CHARLES W. MASSEY, JR., Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.
PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

BORIS S. MITYAGIN, Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JOHN B. NEUHARDT, Professor, Department of Industrial and Systems Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

DONALD L. PALMQUIST, Professor, Department of Dairy Science, effective April 15, 1990, through December 31, 1990.

STEPHEN V. TRACY, Professor, Department of Classics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

THOMAS A. ROMANOWSKI, Professor, Department of Physics, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1990.

GIACOMO A. SANI, Professor, Department of Political Science, effective Summer Quarter and Autumn Quarter 1989, and Winter Quarter 1990.

AVNER D. ASH, Associate Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

WILLIAM A. BAESLACK III, Associate Professor, Department of Welding Engineering, Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JAMES O. BILLUPS, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ROSEMARY BOLIG, Associate Professor, Department of Family Relations and Human Development, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ANTHONY F. CAMPAGNA, Associate Professor, Faculty of Management and Human Resources, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SUSAN DALLAS-SWANN, Associate Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

NEIL F. FALKNER, Associate Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

LEWIS GREENWALD, Associate Professor, Department of Zoology, effective Winter Quarter and Spring Quarter 1990.

HAROLD S. HIMMELFARM, Associate Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CIRIYAM JAYAPRAKASH, Associate Professor, Department of Physics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SEppo A. KorpeLa, Associate Professor, Department of Mechanical Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

JANINA C. LATACK, Associate Professor, Faculty of Management and Human Resources, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

MARCIA P. MICELI, Associate Professor, Academic Faculty of Management and Human Resources, effective Winter Quarter and Spring Quarter 1990.

HAIKADY N. NAGARAJA, Associate Professor, Department of Statistics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

VIRGINIA E. RICHARDSON, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

DAVID W. RICHTER, Associate Professor, School of Journalism, effective Winter Quarter and Spring Quarter 1990.

LARRY D. SHINEMAN, Associate Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

VIRGINIA B. WEINHOLD, Associate Professor, Department of Industrial Design, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CHARLES E. WILSON, Associate Professor, College of Law, effective Spring Semester 1990.

ELLIN E. CARTER, Assistant Professor, College of English, effective Autumn Quarter 1989.

ALAN R. CROCKETT, Assistant Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SHIRLEY PALMER, Assistant Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

Professional Improvement Leave--Change of Dates

AMY E. SHUMAN, Associate Professor, Department of English, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

Professional Improvement Leaves--Cancellations

SHIGERU MIYAGAWA, Associate Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CHARLES G. S. WILLIAMS, Associate Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1989 and Winter Quarter 1990.
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure

COLLEGE OF AGRICULTURE

PROMOTION TO PROFESSOR with TENURE
Rattan Lal, Agronomy, effective 7/1/89

PROMOTION TO PROFESSOR
David O. Hansen, Agricultural Economics and Rural Sociology, effective 7/1/89
Michael E. Mangino, Food Science and Nutrition, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE
Tom Danneberger, Agronomy, effective 7/1/89
Scott H. Irwin, Agricultural Economics and Rural Sociology, effective 7/1/89
Martin F. Kenney, Agricultural Economics and Rural Sociology, effective 7/1/89
Joy L. Pate, Dairy Science, effective 7/1/89

TENURE
Sylvia A. McCune, Food Science and Nutrition, effective 9/1/90
Sudhir K. Sastry, Agricultural Engineering, effective 9/1/90
Royce B. Thornton, ATI, Animal Industries, effective 7/1/90
Andrew D. Ward, Agricultural Engineering, effective 3/3/91

COORDERATIVE EXTENSION

PROMOTION TO ASSOCIATE PROFESSOR
William E. Henderson, effective 7/1/89
Ronald L. Overmyer, effective 7/1/89
William C. Smith, effective 7/1/89
Marilyn Spiegel, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR
Kenneth R. Lafontaine, effective 7/1/89
Sharon L. Mader, effective 7/1/89
Karen S. Perry, effective 7/1/89
Jane C. Warner, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR and TENURE
Vicki L. Whitted, effective 7/1/89 and 9/6/90, respectively
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COOPERATIVE EXTENSION (contd)

TENURE

Stephen M. Bratkovich, effective 4/8/90
Dennis W. Hall, effective 6/1/90

COLLEGE OF THE ARTS

PROMOTION TO PROFESSOR

Odette Blum, Dance, effective 10/1/89
David M. Butler, School of Music, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Edward H. Adelson, School of Music, effective 10/1/89
Patricia J. Flowers, School of Music, effective 10/1/89
Mark D. Fullerton, History of Art, effective 10/1/89
Robert A. Gillespie, School of Music, effective 10/1/89
Richard S. Harned, Art, effective 10/1/89
Deborah A. Horrell, Art, effective 10/1/89
Dennis A. Parker, Theatre, effective 10/1/89
Stephen L. Pentak, Art, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Alan R. Crockett, Art, effective 10/1/89

COLLEGE OF BIOLOGICAL SCIENCES

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Scott Falkenthal, Molecular Genetics, effective 10/1/89
Thomas E. Hetherington, Zoology, effective 10/1/89
Robert E. Page, Entomology, effective 7/1/89

PROMOTION TO ADJUNCT ASSOCIATE PROFESSOR

Edith L. Taylor, Botany, effective 7/1/89

COLLEGE OF BUSINESS

PROMOTION TO PROFESSOR

Glenn W. Milligan, Management Sciences, effective 10/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF BUSINESS (contd)

PROMOTION TO PROFESSOR (contd)

WanSoo T. Rhee, Management Sciences, effective 10/1/89
David A. Schilling, Management Sciences, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Nicholas G. Hall, Management Sciences, effective 10/1/89
Stephen L. Mangum, Management and Human Resources, effective 10/1/89

COLLEGE OF DENTISTRY

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Stephen E. Feinberg, Oral and Maxillofacial Surgery, effective 7/1/89
John G. Odom, Community Dentistry, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Roland P. Pagniano, Restorative and Prosthetic Dentistry, effective 7/1/89
Rickne C. Scheid, Restorative and Prosthetic Dentistry, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR

Hilary A. Soller, Dental Hygiene, effective 7/1/89

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

Lee M. Butler, Orthodontics, effective 7/1/89
Dale B. Wade, Orthodontics, effective 7/1/89
Petton W. Wheeler, Orthodontics, effective 7/1/89

COLLEGE OF EDUCATION

PROMOTION TO PROFESSOR

Moon Shao-chuang Chen, Jr., Health, Physical Education & Recreation, effective 10/1/89
Paul Jansma, Health, Physical Education and Recreation, effective 10/1/89
Michael D. Orlansky, Educational Services and Research, effective 10/1/89
Robert J. Tierney, Theory and Practice, effective 10/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF EDUCATION (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Evelyn B. Freeman, Theory and Practice, Newark, effective 10/1/89
Peter V. Paul, Educational Services and Research, effective 10/1/89
William M. Sherman, Health, Physical Education & Recreation, effective 10/1/89

TENURE

Betty P. Cleaver, Policy and Leadership, effective 1/1/92

COLLEGE OF ENGINEERING

PROMOTION TO PROFESSOR

William A. Baeslack III, Welding Engineering, effective 10/1/89
William A. Clark, Materials Science, effective 10/1/89
Charles A. Klein, Electrical Engineering, effective 10/1/89
David E. Orin, Electrical Engineering, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Tunc Aldemir, Mechanical Engineering, effective 10/1/89
Stephen E. Bechtel, Engineering Mechanics, effective 10/1/89
James F. Davis, Chemical Engineering, effective 10/1/89
Brian D. Harper, Engineering Mechanics, effective 10/1/89
Barry L. Nelson, Industrial and Systems Engineering, effective 10/1/89
Charles H. Reilly, Industrial and Systems Engineering, effective 10/1/89
John W. Simpson, Landscape Architecture, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Shive Chaturvedi, Civil Engineering, effective 10/1/89

TENURE

Rama K. Yedavalli, Aeronautical and Astronautical Engineering, effective 10/1/90

COLLEGE OF HOME ECONOMICS

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Rebecca Kantor, Family Relations and Human Development, effective 10/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF HOME ECONOMICS (contd)

TENURE

Kathryn Jakes, Textiles and Clothing, effective 10/1/90

COLLEGE OF HUMANITIES

PROMOTION TO PROFESSOR

Jeremy Cohen, History, effective 10/1/89
Charles E. Gribble, Slavic and East European Languages, effective 10/1/89
Ronald E. Laymon, Philosophy, effective 10/1/89
Williamson Murray, History, effective 10/1/89
James P. Phelan, English, effective 10/1/89
Charles Garfield Singer Williams, Romance Languages, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Mary E. Beckman, Linguistics, effective 10/1/89
Frank T. Coulson, Classics, effective 10/1/89
Gary L. Ebersole, East Asian Languages, effective 10/1/89
Bernd Fischer, German, effective 10/1/89
Duane W. Roller, Classics, Lima Campus, effective 10/1/89

TENURE

Irene Ingeborg Masing-Delic, Slavic and East European Languages, effective 10/1/90

COLLEGE OF LAW

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Daniel C.K. Chow, effective 8/16/89
Nancy H. Rogers, effective 8/16/89

UNIVERSITY LIBRARIES

PROMOTION TO PROFESSOR

Thomas F. Heck, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Hazel B. Benson, effective 7/1/89
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

UNIVERSITY LIBRARIES (contd)

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Nancyanne O'Hanlon, effective 7/1/89 and 12/1/90, respectively

TENURE

Susan M. Kroll, Health Sciences Library, effective 5/1/90

COLLEGE OF MATHEMATICAL AND PHYSICAL SCIENCES

PROMOTION TO PROFESSOR

Avner D. Ash, Mathematics, effective 10/1/89
Alexander Dynin, Mathematics, effective 10/1/89
Ulrich Gerlach, Mathematics, effective 10/1/89
Ciriyam Jayaprakash, Physics, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

C. David Andereck, Physics, effective 10/1/89
Anthony W. Czarnik, Chemistry, effective 10/1/89
L. Stanley Durkin, Physics, effective 10/1/89
Tin-Lun Ho, Physics, effective 10/1/89
R. Sooryakumar, Physics, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Syed M. Tariq Rizvi, Mathematics, Lima, effective 10/1/89

PROMOTION TO ADJUNCT ASSOCIATE PROFESSOR

Lonnie G. Thompson, Geology and Mineralogy, effective 7/1/89

COLLEGE OF MEDICINE

PROMOTION TO PROFESSOR

Michael R. Grever, Internal Medicine, effective 7/1/89
Janice K. Kiecolt-Glaser, Psychiatry, effective 7/1/89
Paul A. Weber, Ophthalmology, effective 7/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF MEDICINE (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Michael T. Brady, Pediatrics, effective 7/1/89
Charles G. Brown, Preventive Medicine, effective 7/1/89
Edward A. Copelan, Internal Medicine, effective 7/1/89
Paul M. Dorinsky, Internal Medicine, effective 7/1/89
Lindsey K. Grossman, Pediatrics, effective 7/1/89
Philip T. Nowicki, Pediatrics, effective 7/1/89
Kwame Osei, Internal Medicine, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Thomas F. DeMaria, Otolaryngology, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Carol E. Osborn, School of Allied Medical Professions, effective 7/1/89 and 7/18/90, respectively

TENURE

Kamran Barin, Otolaryngology, effective 4/4/90
Robert M. DePhilip, Anatomy, effective 7/1/90
Steven C. Dilsaver, Psychiatry, effective 9/1/90
Julia F. Guy, Anatomy, effective 10/1/89

COLLEGE OF MEDICINE

CLINICALS

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

William J. Athens, Family Medicine, effective 7/1/89
Roy R. Bontrager, Family Medicine, effective 7/1/89
Donald K. Bryan, Obstetrics and Gynecology, effective 7/1/89
Daniel G. Jackson, Otolaryngology, effective 7/1/89
Jack M. Lomano, Obstetrics and Gynecology, effective 7/1/89
Thomas S. Main, Otolaryngology, effective 7/1/89
Delphis C. Richardson, Pediatrics, effective 7/1/89
Janak Wadwa, Pediatrics, effective 7/1/89
Mary Jo Welker, Family Medicine, effective 7/1/89

PROMOTION TO CLINICAL ASSISTANT PROFESSOR

James J. Barr, Family Medicine, effective 7/1/89
Dennis M. Doody, Pediatrics, effective 7/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF BUSINESS (contd)

PROMOTION TO PROFESSOR (contd)

WanSoo T. Rhee, Management Sciences, effective 10/1/89
David A. Schilling, Management Sciences, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Nicholas G. Hall, Management Sciences, effective 10/1/89
Stephen L. Mangum, Management and Human Resources, effective 10/1/89

COLLEGE OF DENTISTRY

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Stephen E. Feinberg, Oral and Maxillofacial Surgery, effective 7/1/89
John G. Odom, Community Dentistry, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Roland P. Pagniano, Restorative and Prosthetic Dentistry, effective 7/1/89
Rickne C. Scheid, Restorative and Prosthetic Dentistry, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR

Hilary A. Soller, Dental Hygiene, effective 7/1/89

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

Lee M. Butler, Orthodontics, effective 7/1/89
Dale B. Wade, Orthodontics, effective 7/1/89
Pelton W. Wheeler, Orthodontics, effective 7/1/89

COLLEGE OF EDUCATION

PROMOTION TO PROFESSOR

Moon Shao-chuang Chen, Jr., Health, Physical Education & Recreation, effective 10/1/89
Paul Jansma, Health, Physical Education and Recreation, effective 10/1/89
Michael D. Orlansky, Educational Services and Research, effective 10/1/89
Robert J. Tierney, Theory and Practice, effective 10/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF EDUCATION (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Evelyn B. Freeman, Theory and Practice, Newark, effective 10/1/89
Peter V. Paul, Educational Services and Research, effective 10/1/89
William M. Sherman, Health, Physical Education & Recreation, effective 10/1/89

TENURE

Betty P. Cleaver, Policy and Leadership, effective 1/1/92

COLLEGE OF ENGINEERING

PROMOTION TO PROFESSOR

William A. Baeslack Ill, Welding Engineering, effective 10/1/89
William A. Clark, Materials Science, effective 10/1/89
Charles A. Klein, Electrical Engineering, effective 10/1/89
David E. Orin, Electrical Engineering, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Tunc Aldemir, Mechanical Engineering, effective 10/1/89
Stephen E. Bechtel, Engineering Mechanics, effective 10/1/89
James F. Davis, Chemical Engineering, effective 10/1/89
Brian D. Harper, Engineering Mechanics, effective 10/1/89
Barry L. Nelson, Industrial and Systems Engineering, effective 10/1/89
Charles H. Reilly, Industrial and Systems Engineering, effective 10/1/89
John W. Simpson, Landscape Architecture, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Shive Chaturvedi, Civil Engineering, effective 10/1/89

TENURE

Rama K. Yedavalli, Aeronautical and Astronautical Engineering, effective 10/1/90

COLLEGE OF HOME ECONOMICS

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Rebecca Kantor, Family Relations and Human Development, effective 10/1/89
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF HOME ECONOMICS (contd)

TENURE

Kathryn Jakes, Textiles and Clothing, effective 10/1/90

COLLEGE OF HUMANITIES

PROMOTION TO PROFESSOR

Jeremy Cohen, History, effective 10/1/89
Charles E. Gribble, Slavic and East European Languages, effective 10/1/89
Ronald E. Laymon, Philosophy, effective 10/1/89
Williamson Murray, History, effective 10/1/89
James P. Phelan, English, effective 10/1/89
Charles Garfield Singer Williams, Romance Languages, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Mary E. Beckman, Linguistics, effective 10/1/89
Frank T. Coulson, Classics, effective 10/1/89
Gary L. Ebersole, East Asian Languages, effective 10/1/89
Bernd Fischer, German, effective 10/1/89
Duane W. Roller, Classics, Lima Campus, effective 10/1/89

TENURE

Irene Ingeborg Masing-Delic, Slavic and East European Languages, effective 10/1/90

COLLEGE OF LAW

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Daniel C.K. Chow, effective 8/16/89
Nancy H. Rogers, effective 8/16/89

UNIVERSITY LIBRARIES

PROMOTION TO PROFESSOR

Thomas F. Heck, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Hazel B. Benson, effective 7/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

UNIVERSITY LIBRARIES (contd)

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Nancyanne O'Hanlon, effective 7/1/89 and 12/1/90, respectively

TENURE

Susan M. Kroll, Health Sciences Library, effective 5/1/90

COLLEGE OF MATHEMATICAL AND PHYSICAL SCIENCES

PROMOTION TO PROFESSOR

Avner D. Ash, Mathematics, effective 10/1/89
Alexander Dynin, Mathematics, effective 10/1/89
Ulrich Gerlach, Mathematics, effective 10/1/89
Ciriyam Jayaprakash, Physics, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

C. David Andereck, Physics, effective 10/1/89
Anthony W. Czarnik, Chemistry, effective 10/1/89
L. Stanley Durkin, Physics, effective 10/1/89
Tin-Lun Ho, Physics, effective 10/1/89
R. Sooryakumar, Physics, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Syed M. Tariq Rizvi, Mathematics, Lima, effective 10/1/89

PROMOTION TO ADJUNCT ASSOCIATE PROFESSOR

Lonnie G. Thompson, Geology and Mineralogy, effective 7/1/89

COLLEGE OF MEDICINE

PROMOTION TO PROFESSOR

Michael R. Grever, Internal Medicine, effective 7/1/89
Janice K. Kiecolt-Glaser, Psychiatry, effective 7/1/89
Paul A. Weber, Ophthalmology, effective 7/1/89
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF MEDICINE (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Michael T. Brady, Pediatrics, effective 7/1/89
Charles G. Brown, Preventive Medicine, effective 7/1/89
Edward A. Copelan, Internal Medicine, effective 7/1/89
Paul M. Dorinsky, Internal Medicine, effective 7/1/89
Lindsey K. Grossman, Pediatrics, effective 7/1/89
Philip T. Nowicki, Pediatrics, effective 7/1/89
Kwame Osei, Internal Medicine, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR

Thomas F. DeMaria, Otolaryngology, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Carol E. Osborn, School of Allied Medical Professions, effective 7/1/89 and 7/18/90, respectively

TENURE

Kamran Barin, Otolaryngology, effective 4/4/90
Robert M. DePhilip, Anatomy, effective 7/1/90
Steven C. Dilsaver, Psychiatry, effective 9/1/90
Julia F. Guy, Anatomy, effective 10/1/89

COLLEGE OF MEDICINE

CLINICALS

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

William J. Athens, Family Medicine, effective 7/1/89
Roy R. Bontrager, Family Medicine, effective 7/1/89
Donald K. Bryan, Obstetrics and Gynecology, effective 7/1/89
Daniel G. Jackson, Otolaryngology, effective 7/1/89
Jack M. Lomano, Obstetrics and Gynecology, effective 7/1/89
Thomas S. Main, Otolaryngology, effective 7/1/89
Delphis C. Richardson, Pediatrics, effective 7/1/89
Janak Wadwa, Pediatrics, effective 7/1/89
Mary Jo Welker, Family Medicine, effective 7/1/89

PROMOTION TO CLINICAL ASSISTANT PROFESSOR

James J. Barr, Family Medicine, effective 7/1/89
Dennis M. Doody, Pediatrics, effective 7/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF MEDICINE
CLINALS (contd)

PROMOTION TO CLINICAL ASSISTANT PROFESSOR (contd)

Gary P. Erdy, Family Medicine, effective 7/1/89
John R. Kean, Surgery, effective 7/1/89
Steven H. Lichtblau, Internal Medicine, effective 7/1/89

COLLEGE OF MEDICINE
REGULAR CLINICAL FACULTY

PROMOTION TO ASSOCIATE PROFESSOR OF CLINICAL MEDICINE

Julio O. Apolo, Pediatrics, effective 7/1/89
Daniel L. Coury, Pediatrics, effective 7/1/89
Neil J. Grossman, Pediatrics, effective 7/1/89
Seth M. Kantor, Internal Medicine, effective 7/1/89
Herman A. Tolbert, Psychiatry, effective 7/1/89

COLLEGE OF MEDICINE
REGULAR CLINICAL FACULTY

REAPPOINTMENTS

ASSOCIATE PROFESSOR

Julio O. Apolo, Pediatrics, effective 7/1/89
Carl Boesel, Pathology, effective 7/1/89
Robert T. Brown, Pediatrics, effective 7/1/90
William Buesching, Pathology, effective 7/1/90
Bruce A. Jones, Psychiatry, effective 7/1/89
Seth M. Kantor, Internal Medicine, effective 10/1/90
Joel Lucas, Pathology, effective 7/1/90
Martha Walters, Pathology, effective 7/1/90

ASSISTANT PROFESSOR

Rosalind J. Bobulski, Physical Medicine, effective 7/1/89
Albert C. Clairmont, Physical Medicine, effective 7/1/90
Bhagwandas Gupta, Anesthesiology, effective 12/17/89
N. Paul Hudson, Internal Medicine, effective 6/1/90
Hisako Koizumi, Psychiatry, effective 1/1/90
Rao Lingam, Anesthesiology, effective 12/17/89
Donald F. Middendorf, Internal Medicine, effective 9/1/89
Randy R. Miller, Pediatrics, effective 7/1/90
Richard N. Nelson, Preventive Medicine, effective 7/1/89
Evelyn E. Pintz, Internal Medicine, effective 7/1/90
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF MEDICINE
REGULAR CLINICAL FACULTY (contd)

REAPPOINTMENTS (contd)

ASSISTANT PROFESSOR (contd)

Robert J. Ragosin, Radiology, effective 7/1/89
David E. Roberts, Preventive Medicine, effective 1/1/90
James M. Ryan, Internal Medicine, effective 7/1/90
Ronald Siegle, Otolaryngology, effective 7/1/89

COLLEGE OF OPTOMETRY

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Joseph T. Barr, effective 7/1/89 and 7/1/90, respectively

COLLEGE OF PHARMACY

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Jessie Lai-Sim Au, Pharmaceutics and Pharmaceutical Chemistry, effective 7/1/89

PROMOTION TO CLINICAL PROFESSOR

Rinaldo A. Brusadin, Pharmaceutical Administration, effective 7/1/89

PROMOTION TO CLINICAL ASSISTANT PROFESSOR

Karen N. Hale, Pharmacy Practice, effective 7/1/89
Douglas J. Scheckelhoff, Pharmaceutical Administration, effective 7/1/89
Jerry Siegel, Pharmacy Practice, effective 7/1/89
David A. Smeenk, Pharmaceutical Administration, effective 7/1/89

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

PROMOTION TO PROFESSOR

Richard P. Gunther, Political Science, effective 10/1/89
Terry F. Pettijohn, Psychology, Marion, effective 10/1/89
Paul W. Sciulli, Anthropology, effective 10/1/89
Sara L. Staats, Psychology, Newark, effective 10/1/89
Richard H. Steckel, Economics, effective 10/1/89
Gifford Weary, Psychology, effective 10/1/89
June 2, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

John P. Bruno, Psychology, effective 10/1/89
Stephen G. Cecchetti, Economics, effective 10/1/89
Eric S. Fredin, School of Journalism, effective 10/1/89
Harvey T. Hubbard, School of Journalism, effective 10/1/89
Randall W. Jackson, Geography, effective 10/1/89
Nelson C. Mark, Economics, effective 10/1/89
Raymond Montemayor, Psychology, effective 10/1/89
Ruth D. Peterson, Sociology, effective 10/1/89
Patricia B. Reagan, Economics, effective 10/1/89
Michael D. Trudeau, Speech and Hearing Science, effective 10/1/89
Michael E. Wallace, Sociology, effective 10/1/89

TENURE

Michael G. Aman, Psychology, effective 7/1/89
Johannes Rojahn, Psychology, effective 7/1/89

COLLEGE OF SOCIAL WORK

TENURE

Richard J. First, effective 4/1/90

COLLEGE OF VETERINARY MEDICINE

PROMOTION TO PROFESSOR

John D. Bonagura, Clinical Sciences, effective 7/1/89
Dennis J. Chew, Clinical Sciences, effective 7/1/89
Marvin L. Olmstead, Clinical Sciences, effective 7/1/89
Robert G. Sherding, Clinical Sciences, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Stephen J. Birchard, Clinical Sciences, effective 7/1/89
Charles L. Brooks, Pathobiology, effective 7/1/89
Lynne E. Olson, Physiology and Pharmacology, effective 7/1/89

Emeritus Title

DEAN A. RAMSEY, Office of Physical Facilities, with the title Assistant Vice President Emeritus for Physical Facilities, effective June 1, 1989.
Emeritus Title--Cancellation

INEZ CARDOZO-FREEMAN, Center for Comparative Studies in the Humanities (Newark Campus), with the title Associate Professor Emeritus, effective January 1, 1989.

Medical Staff--Appointments

MADELINE J. ANDREWS, M.D., Courtesy Staff, Anesthesiology
EILEEN F. KASTEN, M.D., Limited Staff, Pediatrics
ROBERT F. GRIFFITH, Attending Staff, Emergency Medicine

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Mr. Teaford:

Mr. Chairman, I would like to read an expression of appreciation for Provost and Vice President Myles Brand:

EXPRESSION OF APPRECIATION

WHEREAS Professor Myles Brand has enhanced the University in many ways during his tenure, including the initiation of a comprehensive curriculum review and the development of an affirmative action plan; and

WHEREAS Professor Brand's leadership as chief academic officer of The Ohio State University has been noteworthy; and

WHEREAS Professor Brand's energy and enthusiasm for The Ohio State University's missions has been exemplary; and

WHEREAS the University of Oregon has recognized Dr. Brand's leadership ability and superb talents by naming him as its President:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees expresses its sincere appreciation to Professor Brand for his splendid service to The Ohio State University and extends to him and his spouse, Professor Margaret Z. Brand, all good wishes for success and happiness in his new position.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Dr. Brand:

Thank you, this comes as a surprise. Joel, this will occupy a place of honor on my wall and in my heart. Thank you all.
June 2, 1989 meeting, Board of Trustees

EXPRESSION OF APPRECIATION (contd)

Mr. Berry:

It is very much deserved.

Mrs. Bowser:

I would like to present a resolution of memoriam for Christine Verges Conaway who served as Dean of Women at Ohio State University for twenty-three years. She was a native of Columbus and she received her bachelors and masters here. She was certainly a good leader and role model for women in those twenty-three years that she was here. I would like to present that resolution in memoriam.

Mr. Teaford:

I would like to say that Mrs. Bowser is one of the products of that leadership.

RESOLUTION IN MEMORIAM

Resolution No. 89-123

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolution in Memoriam.

RESOLVED, That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Christine Y. Conaway

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 23, 1989, of Christine Yerges Conaway, Dean of Women Emeritus in the Office of Student Affairs.

Nationally recognized as a leader in the field of student personnel administration, Christine Y. Conaway served as Dean of Women at The Ohio State University for twenty-three years, from 1944 until her retirement in 1967.

A native of Columbus, Ohio, born November 18, 1901, Mrs. Conaway received her Bachelor of Arts degree in 1923 and her Master of Arts degree in 1942 from The Ohio State University. She was awarded the honorary degree, Doctor of Humane Letters, from Otterbein College in 1957. In 1968 she was presented The Ohio State University Distinguished Service Award and in 1977 the residence hall, Conaway House, was named in her honor. As an undergraduate, she was president of the Women's Self Government Association and of her sorority, Pi Beta Phi, and was a member of the national honor society, Mortar Board.

After her husband's death in 1937, Mrs. Conaway returned to The Ohio State University where she served from 1937 to 1941 as assistant to the dean of the College of Arts and Sciences and from 1941 to 1944 as acting secretary of that college. In February 1944, Mrs. Conaway was named Dean of Women.
RESOLUTION IN MEMORIAM (contd)

Christine Y. Conaway (contd)

She served as vice president of the National Association of Women Deans and Counselors, executive committee member of the American College Personnel Association and president of the National Conference on College Fraternities and Sororities.

In recognition of her exemplary leadership to the student personnel profession and her prominent role in the development and the nurturing of undergraduate and graduate programs for the career advancement of women, the national honor society Alpha Lamdba Delta established a fellowship in her honor. An Ohio State University Mortar Board Scholarship is also named for her. The Christine Y. Conaway Woman of Achievement in Education Award is granted annually by the YWCA in recognition of her many contributions to education and to the Columbus community.

The honor societies Theta Sigma Phi, Delta Kappa Gamma, Phi Delta Gamma, Chimes and Sphinx also elected her to membership. She was listed in Who's Who in America and Who's Who in American Women.

Christine Conaway will be remembered as a highly respected professional person in the academic world and a courageous lady who inspired others to the highest level of grace, dignity and quality of life.

On behalf of the University community, the Board of Trustees expresses to the family of Mrs. Conaway its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University and her many friends and associates have sustained.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

Thank you, Mr. Chairman. The Student Affairs Committee met this morning and we were given a talk by Dean Richard Hollingsworth who was introduced by Dr. Russell Spillman. Dean Hollingsworth gave an exceptionally good report explaining the overview of Student Life on the Ohio State campus, what the basic purposes of the school are, and what Ohio State means to each student. The realization that when a student comes to Ohio State he is pretty well matured and pretty well convinced in his beliefs, his moral principals, and his habits. To overcome some of these things, Ohio State has someone to assist them if they wants to get that assistance. For example, we have freshmen student counselors, counselors throughout the University, assistance in financial matters, with living conditions. I think it should be brought out at this time; and the Dean brought out -- that 80 percent of the students live off campus. In itself, it can create quite a difficult problem.

We also discussed the financial situation and the financial conditions of these students. It was Dean Hollingsworth's opinion, when the committee asked him point blank, if they expected a raise in tuition. The answer was in the affirmative, which...
June 2, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE (contd)

Mr. Barone: (contd)

surprised me. The students felt that if they wanted a good education, they have to pay for it even when the tuition goes up. The merits of the school, the teaching conditions of the school benefit that student.

I especially wanted to know how many black students are attending Ohio State University. I was told anywhere from 2,500 to 5,000-6,000.

Mr. Teaford:

I never realized there were so many.

President Jennings:

It is about 2,500 or more.

Mr. Barone:

Well, that is what Russ thought. Russ thought there was a little more. The Dean thought that there were 2,500. I think it is very necessary, and Dean Hollingsworth thought it very necessary, to know the number of black students and to make every effort to get more black students into the University. But also, keep in mind, that the number of black students determines a lot of the other factors in teaching and everything that goes with that.

We also brought out the fact that minorities services are almost full. I feel that Ohio State University does everything possible to help each student that attends this University. It is there, but it is not spoon-fed. I mean you have to go out and get it. I think that ends my report at this time. Are there any questions on this report? I had the two Student Trustees with me. Do you have any questions or would you like to make any comments? I would welcome any comments of the Dean as well. Thank you.

If there are no questions I would like to move on to the student government leaders' reports. I would like to hear from Steve Dibert, President of the Interprofessional Council.

Mr. Steve Sloan:

Hi, once again I am not Steve Dibert. I am Steve Sloan. Mr. Dibert could not be here. Once again he is on a rotation. He is now on a new rotation, he is doing internal medicine and just couldn't escape the hospital. He asked me to take his place today despite the fact that he read the copy of the last speech I gave. I also read a copy of my last speech and I think the editors did a great job being able to convert most of my statements into complete sentences. I think today's speech should be a little easier for them. It is going to be shorter.

The last time I spoke to you I told you about what the IPC had been doing during the school year -- some of our successes, some of the things we have been working on, and are still working on, but I didn't tell you about our failures. I would like to update the Board on one of those topics, and that is the bookstore. The IPC wishes to acknowledge and thank Mr. Jackson for his assistance. We now have much more
Mr. Sloan: (contd)

information than we did before. We feel that with this information we will be able to communicate to our constituents exactly what the policies are that the bookstore uses to set their prices for our books. We are very happy to have that information.

For the past two months the IPC has been quite busy with administrative details. New representatives were selected from each of the professional schools and new officers were elected. I am happy to say that Mr. Dibert will be staying on as President and that I was elected to be Vice President. In addition, applications were sent to all professional schools for the various positions on the committees and councils that professional students can sit on. We received back a very strong group of applicants and we filled all those positions. We are very happy with that. We think that next year we will be much more active in each of those areas. This year we had some people who were quite active and some students who weren't as active as we would have liked.

Finally, I would just like to say that next year we are hoping to continue our hard work and increase the number of activities that we are involved in. We look forward to working with the new undergraduate and graduate student governments, the administration, and, of course, you, the Board of Trustees. Thank you, very much.

Mr. Barone:

I would like to call upon David Straub -- Undergraduate Student Government.

Mr. David Straub:

My name is David Straub and I am the President of the Undergraduate Student Government. Members of the Board, President Jennings, special guests, good afternoon. We have just made a transition into the new administration. I was sworn into office on May 17. We have done some new things, and I would like to say that I believe we have had a smooth transition with the previous administration. As of last night, 7:50 p.m., we made our final appointment rounding out approximately a total of 80 appointments. This was done and we had an orientation with students last evening.

The issues we discussed last evening are some of the issues that we are going to focus on in this upcoming year. My report today is going to give you some of the direction of student government and some of the areas we would like to cover that are issues of major concerns to students. One of the first things that we are going to do so that we know what areas are of major concern to students, is do a student research program to research what the students needs, wants, and desires are. One of approximately seven major concerns to the students in our administration is affirmative action. We are concerned with the recruitment and retention of minority students.

A student political action committee will also be formed in this upcoming year to have students more active in the political process so the scare of tuition increases won't be so dramatic in future years. Also, we hope to be active in other political issues at the state-level. We don't know all of the details right now, but this political action committee should help students become more active in the political arena.
Teacher evaluations is another concern of ours. We would like students -- we see them as consumers, so we would like the consumers to know what product they are receiving before they purchase it. So that is how we look at that issue. We would like to see some steps move forward in that area.

Campus safety is a major concern in our administration and we will work hard to make campus a safe place for students.

Campus environment is a new position that we have created this year to deal with some of the environmental issues not only on campus but outside of campus. This position will deal with things such as the tree issue on High Street and try and make students more supportive of cleanliness and neatness on campus.

Another issue that you have heard about and is not a new one to anyone here, is traffic and parking. We have a position to deal with that growing problem.

Those are some of the things that we are going to deal with in this upcoming year. And we have students that are highly motivated to deal with these issues. I appreciate your time and have a good afternoon.

Mr. Barone:

Thank you, Mr. Straub. Any questions? Roger Musgrave--

Mr. Roger Musgrave:

Good afternoon. This might be the first time you have seen all of my face, but it is the last time you will have to see it.

Mr. Teaford:

You've shaved your beard off, that is why Mr. Barone couldn't find you back there.

Mr. Barone:

I kept looking. I even put my glasses on.

Mr. Musgrave:

For good or bad, it is your last time you will be seeing me make one of these reports. As I reported, we just held our elections last month. I would like to introduce you to my successor to begin my report. Luke Evans will be the President of the Council of Graduate Students next year. He served this year as our Vice President. Luke earned a B.B.A. in Accounting from the University of Toledo, an M.A. in Business Administration Education here at Ohio State, and he is presently a Ph.D. candidate in Educational Policy and Leadership. He has represented us on the University Senate; the Council of Research and Graduate Studies; at the National Association of Graduate and Professional Students; and in a variety of other ways. He is very well prepared and experienced to serve as our spokesman next year.
Mr. Musgrave: (contd)

Our Vice President next year will be Benetta Lucius. She served as our Secretary this year. Benetta holds a B.A. in Elementary Education from Austin Peay State University in Tennessee, and an M.A. in the same field from Ohio State. She is presently working on a Ph.D. in Educational Policy and Leadership. So, I guess it kind of makes sense to have two folks from Ed P&L running our group. She has been active with CGS ever since her very first quarter of enrollment here. She coordinated the 1987 CGS Vita Writing Workshop; represented us among the National Association of Graduate and Professional Students; and we feel veryfortunate to have her as another of our spokespersons.

We think you will definitely find them both a pleasure to work with, but we also hope that you will find them a royal pain in the neck when CGS feels that grad students' interests aren't being properly represented.

To update you -- it appears now that there will definitely be an alternate health insurance plan offered to graduate students nation-wide by the National Association of Graduate Students. We don't believe, in the short run at least, that Ohio State's plan will feel much of an effect from it. The premium will be significantly higher than our present plan with Central Benefits, roughly $145.00 a quarter for a single student. The trade-off is that some of the benefits are significantly higher. The major medical end of it will be $250,000 as opposed to our $100,000. We are just happy that folks have a choice. In essence it is the same plan that is presently available to law students through the American Bar Association Student Division.

I would like to briefly recap the year as CGS saw it, and to give you some of our hopes for the next year. First, we hope that continued attention will be directed to the financial status of graduate students. It seems apparent to us that we have actually slipped a bit backward this year. A 4 percent increase was granted to GA's and that has to be compared to the 7 percent increase we will face in graduate housing; a double digit increase in health insurance costs; an increase we can't quote in books and lab fees, but we are rather doubtful that the publishers will hold down to 4 percent their cost increases, because that is all we've got; and the list goes on. Then, if our stipend is to be argued to be comparably reasonable, we hope that it is recognized that that level can erode pretty quickly -- year in and year out. The rate of increase in the stipends falls that far behind the rate of increase in the costs folks have to bear.

We also hope that additional attention will be focused upon graduate students' need for more and better child care services. We hope that the Graduate School doesn't become primarily a reserve of "DINKS" (Double Income No Kids) and single people. We continue to be convinced that females that have children and are considering coming back to graduate school are disproportionately effected by not having more child care available to them.

We also hope our fellowship programs can be strengthened and expanded. There is little question in our minds that such improvements are mandatory if our graduate programs are to become stronger.

We hope that facilities also will continue to receive the attention that they deserve. It is hard to imagine a research library worthy of the name that has one carrel for 100
June 2, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

or so people that could use one. And, yet that is what we have. It is hard to imagine teachers counseling their students and working with them when they have twenty TA's scattered about 120 X 30 foot room, all working in an open environment. And, yet that is what we have in some places. And to go to parking, it is tough to imagine asking those who do so much of our teaching to spend 22 hours a quarter walking back and forth to their car. And yet, that is what you have with only a 12 minute walk out to a "B" lot from your office or classroom.

Fortunately the good here far out weighs the problems. We applaud the University's continuing initiatives in research and teaching programs. We would like to see more, but we very much appreciate increased support for some graduate programs on campus. We are very happy to see the attraction of world-class scholars and researchers to our graduate faculty. And we are very happy to see the increasingly strong national reputation the University is developing.

We were obviously ecstatic about the resolution of the issue of the taxation of graduate student fee authorizations. And we saw evidence there how wonderfully responsive the University can be and even the City government, in that the University helped us to get our City tax refunds back a lot more quickly than mandatory. We very much appreciated the support received for the Graduate Student Orientation Program; the Graduate Research Forum; and some of the other events we have put on. We are pleased with the new Patents and Copyright Policy that has been accepted which explicitly recognizes the contributions of graduate students. I'll stop there. There are a number of other good things that have gone on.

We are very proud of this institution in most cases. For all of us in the Council our degrees will bear the name of the institution for the rest of our lives, so we hope that you continue to recognize that we, too, want what we see as best for the University every time we come here with suggestions, complaints, and/or demands. Thank you for appearing to be always willing to hear our arguments and to act on them when we've convinced you.

I will focus a bit more on my own research and academic goals this year, but my life will be a bit richer for those of you who have spent your time working with me. And I will always treasure the memories I've gotten. Thank you.

Mr. Barone:

Roger, at this time the Board would like to present you with an Expression of Appreciation:

EXPRESSION OF APPRECIATION

WHEREAS Roger Musgrave has served as President of the Council of Graduate Students during the past year; and

WHEREAS he has carried out his assignment in an exemplary manner; and
June 2, 1989 meeting, Board of Trustees

EXPRESSION OF APPRECIATION (contd)

WHEREAS his leadership in representing the interest of students has been positive in nature as has been his communication with both the Board of Trustees and the Administration:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Roger Musgrave its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Musgrave:

Thank you.

--0--

AGRICULTURAL AFFAIRS COMMITTEE

Mrs. Bowser:

The Agricultural Affairs Committee met this morning with the Vice Chair, Steven Maurer from the Department of Agriculture with us. We heard from Dr. Fred Miller who chaired the Drought Task Force. It is sort of ironic that we talked about a drought this morning, because Ohio agriculture is now suffering from the opposite effect which is too much rain. He shared with us how that task force was created and how proud they were of a 24-hour turnaround in information. Questions were called in and within 24 hours they were answered with information the University was able to provide.

They had three satellite TV specials. He said that the Cooperative Extension agents learned to use the fax machines quite well, because that was one of the ways they got the information back and forth. They were sort of surprised to learn that they also had to respond to many questions from the media on different aspects of the drought such as water rights and all of the environmental concerns that everyone had last year. He sort of pulled it all together and felt that the University had learned a lot from the drought. It was a timely message because the University has already done one satellite TV production on too much moisture.

And speaking for Ohio Agriculture, I can really say that you talk a lot about Cooperative Extension and Ohio State, but when you are really having to make tough decisions it is wonderful to have the data to back up those decisions.

So, that was our report for this morning. If there are any questions, I will entertain them. If not, that completes my report.

(See Appendix LVII for complete text of the Drought Task Force Minutes, April 7, 1989, page 1397.)

--0--
June 2, 1989 meeting, Board of Trustees

FISCAL AFFAIRS COMMITTEE

Mr. Kessler:

The committee is recommending the following resolutions for approval:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 89-125

Synopsis: The Fiscal Affairs Committee recommended the approval of the report of research contracts, grants, and gifts and the summary for April 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University, and The Ohio State University Foundation during the month of April 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR APRIL 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>100</td>
<td>$6,069,241.72</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>69</td>
<td>$423,826.00</td>
</tr>
<tr>
<td>Total</td>
<td>169</td>
<td>$6,493,067.72</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

The H. P. Wolfe Chair in Accounting Fund
(Establish an endowed chair) $750,000.00

The Health Management Lecture Fund
(Lectureship series) $21,000.00
Establishment of Named Funds (contd)

The Carolyn Engel Luebeck Memorial Endowment Fund
(Department of German -- lectures) $20,125.00

D. Ransom Whitney Endowed Fund in Statistics
(Scholarships, fellowships, distinguished visitors and faculty development) $6,426.00

The Thomas E. and Jean D. Powers Award Fund
(An annual award to deserving junior faculty members and graduate students - Department of Statistics) $6,148.00

Ronald L. and Sharon Smith Redick Home Economics Graduate Fellowship Fund
(Fund a graduate fellowship) $5,010.00

Change in Description of Named Fund

The Lawrence D. Jones Scholarship Fund

Change in Name and Description of Named Funds

From: The Torrence A. Makley Fund
To: The Torrence A. Makley Research Professorship

From: The Bert C. Wiley, M.D., Professorship in Physical Medicine and Rehabilitation Fund
To: The Bert C. Wiley, M.D., Endowed Professorship in Physical Medicine and Rehabilitation

From: The Farm Income Enhancement Program Fund
To: The Farm Income Enhancement Endowed Chair in Agricultural Policy, Trade and Marketing

The Ohio State University Foundation

Approval of Description and Establishment of Fund

William H. Havener, M.D., Chair in Ophthalmology Research Fund
Federal Research Contracts/Grants

$442,180.00 - Department of Defense, Defense Advanced Research Projects Agency, Arlington, Virginia, Development of an Advanced Ground Mobility System (AGMS), Department of Mechanical Engineering (K. J. Waldron) and Department of Electrical Engineering (C. A. Klein), 1 February 1989 through 30 September 1989. (Project 766670 - Continuation)

$255,470.00 - Department of Health and Human Services, Center for Disease Control, Atlanta, Georgia, Development of a Multisized Hybrid III Dummy, Department of Mechanical Engineering (R. L. Stalnaker), 1 April 1989 through 31 March 1990. (Project 765973 - Continuation)

$179,917.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Medicine Administration (D. G. Cornwell), 1 April 1989 through 31 March 1990. (Project 761078 - Continuation)

$170,413.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Polyquinane and Related Natural Products, Department of Chemistry (L. A. Paquette), 1 July 1989 through 30 June 1990. (Project 762298 - Continuation)

$165,586.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Role of Gangliosides in the Pathogenesis of Gliomas, Department of Pathology (A. J. Yates), 1 May 1989 through 31 March 1990. (Project 767412 New)

$160,219.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Molecular Biology of Organellar Translocation, Department of Molecular Genetics (B. R. Oakley) and Department of Microbiology (D. R. Galloway), 1 April 1989 through 31 March 1990. (Project 763502 - Continuation)

$154,542.00 - National Science Foundation, Washington, D.C., Psychophysiological Inference: Implications for the Study of Effect and Emotion, Department of Psychology (J. T. Cacioppo), 1 July 1989 through 30 June 1991. (Project 767395 - New)

$152,315.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Metabolism of (N-3) Fatty Acids, Department of Physiological Chemistry (H. W. Sprecher), 1 April 1989 through 31 March 1990. (Project 760745 - Continuation)

$150,286.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Deoxycytidine Kinase: Regulation and Molecular Biology, Department of Biochemistry (D. H. Ives), 1 May 1989 through 30 April 1990. (Project 767295 - New)


$138,657.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Topical In Vivo Electron Spin Resonance, Department of Chemistry (L. J. Berliner), 1 April 1989 through 31 March 1990. (Project 766380 - Continuation)
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$137,991.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Lipids Controlling S. aureus Survival In Vivo, Department of Microbiology and Immunology (F. A. Kapral), 1 April 1989 through 31 March 1990. (Project 763912 - Continuation)

$130,417.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Research and Graduate Studies Administration (T. L. Sweeney), 1 April 1989 through 31 March 1990. (Project 764748 - Continuation)

$126,403.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, la Expression by Macrophages from Bcg7 and Bcg8 Mice, Department of Microbiology (B. S. Zwilling), 1 April 1989 through 31 March 1990. (Project 765985 - Continuation)

$119,355.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Continuation of the Ohio State University's Undergraduate Middle East Studies Center, University Center for International Studies (A. Payind), Office of International Affairs (C. F. Hermann), and Graduate School Administration (A. Koenigsknecht), 15 August 1989 through 14 August 1990. (Project 766980 - Continuation)

$109,800.00 - National Science Foundation, Washington, D.C., An Imaging Spectrometer for Long-Term Studies of Emission-Line Objects, Department of Astronomy (J. A. Baldwin), 15 April 1989 through 30 April 1990. (Project 767434 - New)

$102,382.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Expression of Granule Cell GABA Receptors in the Developing Cerebellar Cortex, Department of Pharmacology (A. Frostholm), 1 April 1989 through 31 March 1990. (Project 767411 - New)

$100,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Hewlett Packard GC-FTIR-MS Instrument, Department of Chemistry (M. S. Platz), 24 April 1989 through 23 April 1990. (Project 767437 - New)

$99,930.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Boundary Layers Induced by Three-Dimensional Vortex Loops, Department of Mechanical Engineering (A. T. Conlisk), 1 May 1989 through 30 April 1991. (Project 767440 - New)

$85,000.00 - National Science Foundation, Washington, D.C., Spectroscopic Studies of Clusters and Their Chemistry, Department of Chemistry (T. A. Miller), 1 November 1989 through 31 October 1990. (Project 766722 - Continuation)

$80,455.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neural Basis of Taste Elicited Ingestion and Rejection, Oral Biology (J. B. Travers), 1 April 1989 through 31 March 1990. (Project 765695 - Continuation)
Federal Research Contracts/Grants (contd)

$79,163.00 - National Science Foundation, Washington, D.C., Research in Astrophysics, Medium Energy Physics, and Fundamental Particles, Department of Physics (R. N. Boyd), 1 November 1989 through 30 April 1990. (Project 765332 - Continuation)

$75,969.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Receptor Regulation of Adrenal Catecholamine Secretion, College of Pharmacy (D. B. McKay), 1 April 1989 through 31 March 1990. (Project 765968 - Continuation)

$71,000.00 - National Science Foundation, Washington, D.C., Properties of Superconductors, Department of Physics (T. R. Lemberger), 1 April 1989 through 31 March 1990. (Project 767396 - New)

$70,159.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Mediastinal Effects on Pulmonary Function, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 April 1989 through 31 March 1990. (Project 765986 - Continuation)

$73,822.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, BNCT (Boron Neutron Capture Therapy) Accelerator Target Assembly Design and Testing, Department of Mechanical Engineering (T. E. Blue) and Department of Radiology (R. Gahbauer), 1 April 1989 through 31 March 1990. (Project 766660 - Continuation)


$60,000.00 - National Science Foundation, Washington, D.C., High Resolution Nuclear Magnetic Resonance (NMR) of Reverse Micelles in Supercritical Fluids, Department of Chemistry (S. V. Olesik), 1 May 1989 through 30 April 1990. (Project 767414 - New)

$58,000.00 - National Science Foundation, Washington, D.C., Single-Atom Peri-Bridged Arenes and Heterocyclics: Carbenic and Silicanionic Processes, Department of Chemistry (H. Shechter), 1 November 1989 through 31 October 1990. (Project 766810 - Continuation)

$55,000.00 - National Aeronautics and Space Administration, Washington, D.C., Interaction of Calcium, Calmodulin, and Auxin in Root Gravitropism, Department of Botany (M. L. Evans), 1 March 1989 through 28 February 1990. (Project 763005 - Continuation)

$55,000.00 - National Science Foundation, Washington, D.C., DNA Mismatch Repair and DNA Methylation in Plants, Biotechnology Program and Department of Molecular Genetics (D. M. Bisaro) and Biotechnology Program (P. E. Kolattukudy), 1 July 1989 through 30 June 1990. (Project 766388 - Continuation)
Federal Research Contracts/Grants (contd)

$50,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Computer Graphics Facility, Department of Chemistry (M. H. Klapper), 24 April 1989 through 23 April 1990. (Project 767432 - New)

$37,777.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Biomechanics of the Middle Ear, Department of Zoology (T. E. Hetherington), 1 April 1989 through 31 March 1990. (Project 764599 - Continuation)

$35,033.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, College of Pharmacy (J. M. Cassady), 1 April 1989 through 31 March 1990. (Project 760661 - Continuation)

$32,000.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Public Service Fellowship Program, School of Public Policy and Management (A. E. Mergel), 1 September 1989 through 31 August 1990. (Project 767400 - New)

$28,959.00 - National Science Foundation, Washington, D.C., Target Interception by Sonar in the Big Brown Bat, Eptesicus fuscus, Department of Zoology (W. M. Masters), 1 May 1989 through 30 April 1990. (Project 765902 - Continuation)

$26,600.00 - National Science Foundation, Washington, D.C., Te Hurwitz Problem on Composition of Quadratic Forms, Department of Mathematics (P. Yiu), 1 December 1989 through 31 May 1991. (Project 766071 - Continuation)

$24,096.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, A Low Velocity Vector, Full-Field Visual Velocimeter for Crystallization Experiments, Department of Chemical Engineering (R. S. Brodkey), 14 April 1989 through 13 April 1990. (Project 767435 - New)

$22,000.00 - Department of the Navy, Bureau of Naval Personnel, Washington, D.C., Improvement of Earth Orientation Theory, Department of Geodetic Science and Surveying (I. I. Mueller), 1 June 1989 through 31 December 1989. (Project 767438 - New)

$21,391.00 - Department of Health and Human Services, National Institute for Occupational Safety and Health, Atlanta, Georgia, Incidence of Work-Related Injury, Department of Preventive Medicine (R. S. Hopkins), 1 June 1989 through 31 May 1990. (Project 767413 - New)

$21,053.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Dentistry Administration (W. R. Wallace), 1 April 1989 through 31 March 1990. (Project 764652 - Continuation)
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$18,550.00 - National Science Foundation, Washington, D.C., Large Cardinals and Forcing, Department of Mathematics (M. Foreman), 1 June 1989 through 31 May 1990. (Project 767407 - New)


$15,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Numerical Investigation of Jet Mixing Enhancement by Single and Multiple Frequency Plane Wave Excitation, Department of Aeronautical and Astronautical Engineering (J. N. Scott), 1 May 1989 through 31 October 1989. (Project 767419 - New)

$14,823.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Veterinary Medicine Administration (R. A. Wright), 1 April 1989 through 31 March 1990. (Project 762776 - Continuation)

$12,632.00 - National Science Foundation, Washington, D.C., Theoretical and Experimental Study of Rotating Flow Past a Sliced Cylinder, Department of Aeronautical and Astronautical Engineering (M. R. Foster), 15 February 1989 through 31 January 1991. (Project 767403 - New)

$12,102.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (R. J. Perry), 15 August 1988 through 31 January 1990. (Project 766901 - Continuation)

$11,730.00 - National Science Foundation, Washington, D.C., Pulse Radiolysis Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 15 April 1989 through 31 March 1992. (Project 767404 - New)

$10,000.00 - Department of Agriculture, Economic Research Service, Washington, D.C., Use of Target Revenues Versus Target Prices in Stabilizing Producer Income, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (M. J. Miranda), 12 April 1989 through 1 January 1991. (Project 767410 - New)

$8,706.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, College of Optometry (R. M. Hill), 1 April 1989 through 31 March 1990. (Project 765317 - Continuation)

$3,500.00 - Department of Agriculture, Soil Conservation Service, Columbus, Ohio, Socio-Economic Factors Affecting the Adoption of Soil Erosion Control Practices, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics
Federal Research Contracts/Grants (contd)

and Rural Sociology (T. L. Napier), 30 September 1987 through 29 September 1989. (Project 766387 - Continuation)

TOTAL - FEDERAL AWARDS $4,415,357.92

State of Ohio Research Contracts/Grants

$147,835.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Ohio Adult Services Training Program, College of Social Work (R. E. Boettcher), 1 January 1989 through 30 June 1990. (Project 767200 - Continuation)

$31,258.00 - State of Ohio, Department of Education, Columbus, Ohio, A Multifaceted Look at the Effects of Program OPTIONS, Center on Education and Training for Employment (R. D. Ryan), 15 March 1989 through 30 June 1989. (Project 767415 - New)

$24,739.00 - State of Ohio, Environmental Protection Agency, Columbus, Ohio, Wetlands for the Control of Non-Point Source Pollution: Literature Review and Preliminary Feasibility Study for Swan Creek Watershed, School of Natural Resources and Department of Natural Resources - OARDC (W. J. Mitsch), 1 April 1989 through 31 March 1990. (Project 767362 - New)

$9,850.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Processing Field Collections of Unionid Mollusks into Research-Ready Lots at the Museum of Zoology of The Ohio State University, Department of Zoology (D. H. Stansbery), 1 May 1989 through 31 December 1989. (Project 767416 - New)

$8,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1988 through 30 June 1989. (Project 766857 - Continuation)

$5,000.00 - State of Ohio, Humanities Council, Columbus, Ohio, Archaeology in a Greek Sanctuary: Isthmia Excavations, 1967-1989, Department of History (T. E. Gregory), 3 December 1988 through 30 April 1989. (Project 767263 - Continuation)

$3,750.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Master Parenting, Cooperative Extension Field Operations (S. F. Joseph), 1 April 1989 through 30 June 1989. (Project 766052 - Continuation)

$3,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Special Parenting Project, Cooperative Extension Field Operations (B. J. Wurzel), 1 April 1989 through 30 June 1989. (Project 765319 - Continuation)

$2,750.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Mentor Mothers Program, Cooperative Extension Field Operations (W. D. Harris), 1 April 1989 through 30 June 1989. (Project 766679 - Continuation)

$2,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Processing Field Collections of Ohio Fishes into Research-Ready Lots at the Museum of Zoology of The Ohio State University, Department of Zoology (T. M. Cavender), 1 May 1989 through 31 December 1989. (Project 767417 - New)
State of Ohio Research Contracts/Grants (contd)

$2,134.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (B. J. Gilbert), 1 April 1989 through 30 June 1989. (Project 766678 - Continuation)

TOTAL - STATE OF OHIO AWARDS $240,816.00

Industrial Research Contracts/Grants (contd)

$150,000.00 - Pfizer, Inc., Groton, Connecticut, Clinical Pharmacology Research Unit, Department of Pharmacology (N. Gerber), 1 October 1988 through 30 September 1989. (Project 760484 - Continuation)

$74,520.00 - The Columbus Dispatch, Columbus, Ohio, Video-Based Job Performance Training Development, Education Administration (J. J. Buffer), 3 April 1989 through 30 September 1989. (Project 767399 - New)

$61,299.00 - Ethicon, Inc., Somerville, New Jersey, A Twelve-Week Clinical Evaluation of 2% Ketanserin Ointment for the Treatment of Lower Extremity Diabetic Ulcers, Department of Internal Medicine (S. Cataland), 1 May 1989 through 31 December 1989. (Project 767401 - New)


$38,000.00 - Sandia Corporation, Albuquerque, New Mexico, Free Space Position Controller, Department of Electrical Engineering (U. Ozguner), 10 April 1989 through 31 December 1989. (Project 767418 - New)

$37,605.00 - Sandoz, Inc., East Hanover, New Jersey, A Double-Blind, Placebo-Controlled, Multicenter Study to Determine the Safety and Efficacy of Sandostatin for Normalization or Reduction of Growth Hormone Levels in Acromegalic Patients, Department of Internal Medicine (W. Malarkey), 1 March 1989 through 31 January 1990. (Project 767422 - New)

$24,805.00 - American Cyanamid Company, Pearl River, New York, Studies of the Safety and Immunogenicity of an Acellular Pertussis Vaccine Compared to Whole Cell Pertussis Vaccine, Department of Pediatrics (L. K. Grossman), 1 January 1989 through 31 August 1989. (Project 765177 - Continuation)

$18,562.00 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink) and College of Pharmacy (J. J. MacKichan), 1 March 1988 through 28 February 1990. (Project 766635 - Continuation)

$15,332.00 - Perkin Elmer Corporation, Danbury, Connecticut, Low Observables Training Seminar, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 March 1989 through 30 April 1989. (Project 767394 - Continuation)
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$15,000.00 - Sandoz, Inc., East Hanover, New Jersey, Parlodel 4:1: A Comparison of Bromocriptine and Carbidopa + Levodopa Alone or in Combination for the Treatment of De Novo Parkinson's Patients, Department of Neurology (G. W. Paulson), 1 December 1988 through 31 December 1989. (Project 765138 - Continuation)


$2,500.00 - Edmund Niles Huyck Preserve, Inc., Rensselaerville, New York, A Comparison of Forest Floor Microarthropods and Selected Soil Properties at the Edmund Niles Huyck Preserve, Department of Entomology - OARDC and Department of Entomology (J. M. Blair), 1 May 1989 through 31 October 1989. (Project 767421 - New)

TOTAL - INDUSTRIAL AWARDS $ 498,490.80

Other Non-Federal Research Contracts/Grants

$173,504.00 - Cincinnati Public School System, Cincinnati, Ohio, Review of Vocational Education Programs in the Cincinnati Public Schools, Center on Education and Training for Employment (R. D. Ryan), 14 February 1989 through 14 August 1989. (Project 767425 - New)

$120,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Fluid Mechanics and Atherogenesis, Department of Surgery and Department of Biomedical Engineering (J. F. Cornhill), 1 April 1989 through 31 March 1991. (Project 767427 - New)


$94,239.00 - Institute of Gas Technology, Chicago, Illinois, Microbial Desulfurization and Denitrification of Eastern Oil Shales, Department of Microbiology (R. M. Pfister), 1 April 1989 through 30 September 1989. (Project 766497 - Continuation)


$66,030.00 - Applied Information Technologies Research Center, Columbus, Ohio, Orthopaedic Assist, Department of Surgery (S. R. Simon), 3 March 1989 through 30 June 1990. (Project 767337 - New)


$34,300.00 - Cleveland Electric Illuminating, Perry, Ohio, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for
Other Non-Federal Research Contracts/Grants (contd)

Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

$31,432.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, English as a Second Language Program (T. T. Diemer), 1 April 1989 through 31 December 1989. (Project 764972 - Continuation)

$25,000.00 - American Otological Society, Inc., Minneapolis Minnesota, Otosclerosis: Morphological, Histochemical, and Cell Culture Studies, Department of Otolaryngology (D. J. Lim), 1 July 1989 through 30 June 1990. (Project 766196 - Continuation)


$17,563.00 - Central State University, Wilberforce, Ohio, Automated Development of Test Program Sites, Department of Chemical Engineering (J. F. Davis), 1 September 1988 through 28 February 1989. (Project 767382 - New)

$13,728.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologics Activities of the Southwest Oncology Group, Department of Internal Medicine (J. J. Rinehart), 1 January 1989 through 31 December 1989. (Project 767439 - New)

$13,000.00 - Agency for Instructional Technology, Bloomington, Indiana, Nepal Project Extension, Department of Educational Policy and Leadership (M. A. Cambre), 16 February 1989 through 30 September 1989. (Project 767408 - New)

$11,250.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, The Treatment of Primary Breast Cancer, Department of Surgery (W. B. Farrar), 1 February 1989 through 31 January 1990. (Project 763659 - Continuation)

$10,021.00 - National Geographic Society, Washington, D.C., Pollen Histories from Lakes of the Brazilian Amazon, Department of Zoology (P. A. Colinvaux), 1 April 1989 through 31 March 1990. (Project 767439 - New)

$6,400.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, NSABP Colo-Rectal Protocols, Department of Surgery (W. B. Farrar), 1 February 1989 through 31 January 1990. (Project 763581 - Continuation)

$3,369.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study #8960, Department of Otolaryngology (D. E. Schuller), 1 January 1989 through 31 December 1989. (Project 766915 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$3,041.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1989 through 31 December 1989. (Project 763116 - Continuation)

$2,500.00 - Wayne State University, Detroit, Michigan, Role of Cricopharyngeal Myotomy and the Treatment of Dysphagia Following Major Head and Neck Surgery, Department of Otolaryngology (D. E. Schuller), 1 August 1988 through 31 May 1989. (Project 767409 - New)


$1,796.00 - University of Minnesota, St. Paul, Minnesota, Technical Assistance to Moroccan Participant Driss Massahou on His Dissertation, Department of Agricultural Engineering (R. J. Gustafson), 26 February 1989 through 4 March 1989. (Project 766617 - Continuation)

TOTAL OTHER NON-FEDERAL AWARDS $ 914,577.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$53,950.00 - additional budget from Ohio Department of Transportation, Columbus, Ohio, for "Digital Data Acquisition and Archiving System," under the direction of the Department of Geodetic Science for the period March 1, 1988 through March 1, 1990. (529752, Ext. 1)

$ 3,103.00 - from Ohio Department of Transportation, Columbus, Ohio, for "Orientation Course for ODOT Summer Employment," under the direction of the department of Civil Engineering for the period April 1, 1989 through June 30, 1989. (529801)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $ 57,053.00

Industrial and Other Sponsored Research and Development

$59,311.00 - additional funding from Battelle Memorial Institute, Columbus, Ohio, for "Heat Exchanger Aspects of a Gas Fired Cooling Only Heat Pump," under the direction of the Department of Mechanical Engineering for the period August 1, 1987 through December 31, 1989. (312439, Exts. 2 & 3)

$54,337.00 - from Tokyo Institute of Computational Fluid Dynamics, Tokyo, Japan, for "Development of Computer Software for Computational Fluid Flow Analyses," under the direction of the Department of Mechanical Engineering for the period April 1, 1989 through March 31, 1990. (529795)

$50,408.00 - from Copeland Corp., Sidney, Ohio, for "Vibration Transmission Analysis of Scroll Compressor for Reduced Noise," under the direction of the Department of Mechanical Engineering for the period April 1, 1989 through March 31, 1992. (529796)
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$48,649.00 - from 39 sponsors of 54 development projects through four departments/research areas of the College.

$41,807.00 - additional funding from Donald Cohen, O.D., Charleston, West Virginia, for "Ultrasonic Tonometer Program," under the direction of the Department of Electrical Engineering for the period April 1, 1988 through September 30, 1989. (312457, Ext. 1)

$22,500.00 - additional funding from General Electric, Cincinnati, Ohio, for "Inlet Test 2 - Hypersonic Inlet Test," under the direction of the Department of Aeronautical and Astronautical Engineering for the period July 15, 1988 through June 30, 1989. (312468, Ext. 1)

$21,600.00 - from General Electric, Cincinnati, Ohio, for "Advanced Titanium Weldability," under the direction of the Department of Welding Engineering for the period April 1, 1989 through December 10, 1989. (529802)

$12,000.00 - from various industry for "Membership in Program to Develop Computer Aided Machine Design Modules - Phase II," under the direction of the department of Mechanical Engineering. (312594)

$12,000.00 - from the Embassy of Egypt, Washington DC for "Peace Fellow - Hafez El-Salmawy," under the direction of the Department of Mechanical Engineering for the period May 1, 1989 through October 31, 1990. (312501)

$10,950.00 - from General Electric, Cincinnati, Ohio, for "Arc Tunnel Testing," under the direction of the Department of Aeronautical and Astronautical Engineering for the period April 4, 1989 through December 15, 1989. (312499)

$10,000.00 - additional funding from Edison Material Technology Center, Kettering, Ohio, for "Sheet Metal Forability: Evaluation and Development of Testing," under the direction of the Department of Materials Science and Engineering for the period October 1, 1988 through April 1, 1990. (312486, Ext. 1)

$9,489.00 - from Continental Insurance, Neptune, New Jersey, for "Hypertext Project," under the direction of the Department of Computer and Information Science for the period April 1, 1989 through September 30, 1989. (529799)

$7,722.00 - from Battelle Memorial Institute, Columbus, Ohio, for "Numerical Calculations," under the direction of the Department of Engineering Mechanics for the period April 1, 1989 through June 30, 1989. (529800)

$6,000.00 - additional funding from Edison Welding Institute, Columbus, Ohio, for "Robot, Vision and Off-Line Programming Integration," under the direction of the Department of Welding Engineering for the period July 1, 1988 through June 30, 1989. (529326, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $366,773.00
Establishment of Named Funds

The H. P. Wolfe Chair in Accounting Fund

The H. P. Wolfe Chair in Accounting Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Dispatch Printing Company of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to support the search for and maintenance of the H. P. Wolfe Chair in Accounting. When the H. P. Wolfe Chaired Professor has been appointed, the annual income shall be used to provide salary and program support in the Academic Faculty of Accounting and Management Information Systems of the College of Business. Appointment to the H. P. Wolfe Chair is to be recommended by the Dean of the College of Business to the Provost and approved by the Board of Trustees. The holder will report annually to the donor's designees on the goals, objectives, and plans for the chair in the upcoming academic year. These yearly reports will describe also the use of all fund earnings, past and projected, over the same two-year period.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Business, in order to carry out the desire of the donor.

The Health Management Lecture Fund

The Health Management Lecture Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from individuals, organizations and corporations interested in and supportive of the Division of Hospital and Health Services Administration in the College of Medicine.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for strategic programming initiatives by the Division of Hospital and Health Services Administration to support a lectureship series on health management issues.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Carolyn Engel Luebeck Memorial Endowment Fund

The Carolyn Engel Luebeck Memorial Endowment Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John B. Luebeck, Associate Life Member, The Ohio State University Alumni Association, of Centreville, Virginia, and Stephanie Woodzell, sophomore, The Ohio State University.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of German for lectures and other departmental scholarly activities.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Humanities, in order to carry out the desire of the donors.

D. Ransom Whitney Endowed Fund in Statistics

The D. Ransom Whitney Endowed Fund in Statistics was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from D. Ransom Whitney (Ph.D '48), Columbus, Ohio, Professor Emeritus of the Department of Statistics, and from friends and students of D. Ransom Whitney.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of Statistics, in consultation, when possible, with D. Ransom Whitney, to fund special needs, including scholarships, fellowships, distinguished visitors and faculty development.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Math and Physical Sciences, in order to carry out the desire of the donors.

The Thomas E. and Jean D. Powers Award Fund

The Thomas E. and Jean D. Powers Award Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Thomas E. Powers (D.V.M. '53, M.S. '54, Ph.D '60) and Jean D. Powers (B.S. '50, M.S. '51, Ph.D '68) of the Departments of Veterinary Clinical Sciences and Statistics, respectively, at The Ohio State University.
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Thomas E. and Jean D. Powers Award Fund (contd)

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used in the Department of Statistics to recognize and promote excellence in the teaching of statistics through an annual award to deserving junior faculty members and graduate students.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Math and Physical Sciences, in order to carry out the desire of the donors.

Ronald L. and Sharon Smith Redick Home Economics Graduate Fellowship Fund

The Ronald L. and Sharon Smith Redick Home Economics Graduate Fellowship Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Ronald L. Redick (M.A. '64, Ph.D '69) and Sharon Redick (B.S.H.E. '60, M.A. '64) of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The income shall be added to the principal until the principal reaches $10,000. At that time, the annual income shall be used to fund a graduate fellowship. The fellowship shall be awarded to students preparing for positions in Home Economics Education. Preference is to be given to students with the following characteristics in priority order: 1. minorities or males; 2. students with high academic credentials; 3. those with prior experience as officers or advisors in Future Homemakers of America and those active in home economics education related professional and/or honorary societies; 4. applicants from Morrow County, Ohio. The recommendation for the recipient will be made by the faculty implementing the home economics teacher education program, in consultation with the University Committee on Student Financial Aid.

In the event that The Ohio State University should no longer support a Home Economics teacher education program, this account will be moved to the College of Education for graduate fellowships. Preference is to be given to students with an interest in the study of curriculum and instruction.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendation of the Dean of the College of Home Economics or the Dean of the College of Education.
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Lawrence D. Jones Scholarship Fund

The Lawrence D. Jones Scholarship Fund was established May 5, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund in memory of Dean Lawrence D. Jones (B.C.E. '23) from his wife, Alice Colton Jones (B.S. '24) of Columbus, Ohio. The description was changed June 2, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Ten percent (10%) of the annual income shall be reinvested in the fund's principal to assure future growth. The remaining ninety percent (90%) of the annual income shall be used to provide one or more scholarships to students who have demonstrated superior academic ability as engineering majors at The Ohio State University. Preference will be given to Ohio residents. Additional consideration will be extended to students with proven financial need. Recipients will be named annually, but may be eligible to compete for renewed awards. Selection will be made by the Dean of the College of Engineering with assistance from the University Committee on Student Financial Aid.

Dean Lawrence D. Jones had a lifelong interest in the study of history. This interest should be considered if the need for this fund should cease to exist or so diminish as to provide unused income within the area of engineering education at The Ohio State University. If this occurs, the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then responsible for engineering and history education.

Change in Name and Description of Named Funds

The Torrence A. Makley Research Professorship

The Torrence A. Makley Fund was established November 5, 1982, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund by alumni, patients, and friends of the Department of Ophthalmology in the College of Medicine. At the time of the establishment of the endowed fund it was agreed that the fund be redesignated The Torrence A. Makley Research Professorship when the level of funding reached the required amount. The name and description were changed to The Torrence A. Makley Research Professorship, June 2, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The principal and/or income is to be used to provide salary and program support for a distinguished scholar in the Department of Ophthalmology. Selection of the recipient is to be made upon the recommendation of the chairperson of the department, in conjunction with the Dean of the College of Medicine.
Report of Research Contracts, Grants, and Gifts (contd)

The Ohio State University Development Fund (contd)

Change in Name and Description of Named Funds (contd)

The Torrence A. Makley Research Professorship (contd)

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for the College of Medicine’s Department of Ophthalmology.

The Bert C. Wiley, M.D., Endowed Professorship in Physical Medicine and Rehabilitation

The Bert C. Wiley, M.D., Professorship in Physical Medicine and Rehabilitation Fund was established April 5, 1985, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from an anonymous donor in honor of Bert C. Wiley, M.D., a graduate of The Ohio State University College of Medicine, Class of 1943. At the time of the establishment of the professorship fund it was agreed that the fund be redesignated as an endowed professorship when the level of funding reached the required amount. The name and description were changed to The Bert C. Wiley, M.D. Endowed Professorship in Physical Medicine and Rehabilitation, June 2, 1989.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income is to be used to provide support for the work of a distinguished scholar and teacher in the Department of Physical Medicine and Rehabilitation within the College of Medicine. The recipient will be recommended by a search committee with final approval from the Dean of the College of Medicine.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income shall be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for medical education.

The Farm Income Enhancement Endowed Chair in Agricultural Policy, Trade and Marketing

The Farm Income Enhancement Program Fund was established on April 8, 1988, by the Board of Trustees of The Ohio State University with gifts from Nationwide Insurance Company, the Ohio Farm Bureau Federation and the State of Ohio. The name and description were changed June 2, 1989.

The annual income shall be used to support the work of the distinguished professor whose research, teaching and public service focus on innovation and imaginative solutions to a myriad of marketing and policy issues facing agriculture. The chair holder shall provide leadership for innovative research and teaching programs concerned with farm income, price and market stability, and new alternatives for increasing cash marketing receipts, demand consumption, trade

1365
June 2, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name and Description of Named Funds (contd)

The Farm Income Enhancement Endowed Chair in
Agricultural Policy, Trade and Marketing (contd)

policy, price income support, cooperatives and forward integration, marketing orders and self-help alternatives. The chair shall be appointed and shall serve at the pleasure of the Vice President for Agricultural Administration in consultation with the Chairperson of Agricultural Economics and Rural Sociology.

In the event that this position should remain vacant for more than one year, then the annual income from this fund shall be used for innovative and creative activities that will strengthen and enhance the ability of the College of Agriculture and its related units to carry out its mission in an exemplary manner. Specific use shall be determined each year by the Vice President for Agricultural Administration.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income can be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations of the appropriate administrative official of the University who is then directly responsible for agricultural teaching, research and extension.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

William H. Havener, M.D., Chair
in Ophthalmology Research Fund

The William H. Havener, M.D., Chair in Ophthalmology Research Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Foundation from friends and colleagues in honor of William H. Havener, M.D.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to provide support for the work of a distinguished scholar in the Department of Ophthalmology within the College of Medicine. The recipient will be recommended by a search committee, with recommendation from the Dean of the College of Medicine to the Provost, and approved by the Board of Trustees.

--0--

Employment of Architects/Engineers and Requestion for Construction Bids

Background

Derby Hall Renovation

This project will renovate all of Derby Hall (approximately 106,000 gross square feet) to improve the quality, quantity, and efficiency of the space assigned to several academic departments of the College of Social and Behavioral Sciences.
June 2, 1989 meeting, Board of Trustees

Employment of Architects/Engineers and Request for Construction Bids (cont'd)

Background (cont'd)

Derby Hall Renovation (cont'd)

This major renovation project will correct long-standing deficiencies and bring the building into compliance with current building code requirements. The project includes installation of a new hot water heating system throughout the building; installation of a new central air conditioning and ventilating system; installation of a new roof and new windows and a new accessible elevator; installation of sanitary and storm sewer drainage systems; installation of new plumbing systems, including the domestic hot and cold water distribution system; upgrading the primary and secondary electrical systems to provide sufficient service for the required programs; renovation of selected areas to accommodate changes in occupancy and improve efficiency of space within academic programs; and renovation of the ground level to provide classrooms for support of the general teaching requirements of the University.

Funds for the project were appropriated by the Ohio General Assembly in House Bills 870 and 810. Construction costs are estimated at $5,950,000, and the total estimated project cost is $7,105,250.

Kottman Hall - Biotechnology Center Improvements

This project will provide research and support facilities for work with plants and plant tissues for those faculty located in Kottman Hall. Included in the project is construction of a greenhouse facility with up to six separate compartments at the south end of the existing Kottman Hall Greenhouse; remodeling of Kottman Hall room 349 to house a tissue culture laboratory; and installation of five new growth chambers in Kottman Hall room 150.

The research work involves use of a variety of plants and will focus on controlling environmental variables of light, heat, moisture, air movement, dust, bedding materials, and treatments to study the effects on plant tissue and structure over time.

Funds for the project are available from a National Science Foundation grant. Construction costs are estimated at $236,000; moveable equipment costs are estimated at $208,000; and the total estimated project cost is $500,000.

Starting Loving Hall - Pathology Photo Studio and Microscopy Lab

This project will remodel the east end of the ground floor portion of Starting Loving Hall's "M" wing and include extensive work in the basement and minor exterior work. The remodeled area will accommodate an electron microscope with associated support laboratory and office. In addition, the existing Pathology photo studio will be replaced with a new studio, darkrooms, and support facilities. The project also includes new lighting and a dedicated HVAC system.

Funds for the project will be made available from University funds. Construction costs are estimated at $269,800, and the total estimated project cost is $309,800.

(See Appendix LVIII for maps, page 1401.)
EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 89-126

DERBY HALL RENOVATION
KOTTMAN HALL - BIOTECHNOLOGY CENTER IMPROVEMENTS
STARLING LOVING HALL - PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Derby Hall Renovation, Kottman Hall Biotechnology Center Improvements, and Starling Loving Hall Pathology Photo Studio and Microscopy Lab.

WHEREAS the Derby Hall Renovation will renovate the entire building to improve the quality, quantity and efficiency of the space assigned to several academic departments of the College of Social and Behavioral Sciences; and

WHEREAS the total estimated cost of this project is $7,105,250, with the estimated construction cost being $5,950,000, with funding provided from State appropriations in House Bills 870 and 810; and

WHEREAS the Kottman Hall Biotechnology Center Improvements will provide research and support facilities for work involving a variety of plants by Biotechnology Center faculty located in Kottman Hall; and

WHEREAS $500,000 is available from a National Science Foundation grant for this project, with the estimated construction cost being $236,000 and the estimated moveable equipment cost being $208,000; and

WHEREAS the Starling Loving Hall Pathology Photo Studio and Microscopy Lab project will remodel the east end of the ground floor portion of Starling Loving Hall's "M" wing and include extensive work in the basement and minor exterior work; and

WHEREAS $309,800 is available from University funds for this project, with the estimated construction cost being $269,800:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, in conjunction with the Department of Administrative Services as appropriate, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works or the University as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established State of Ohio and/or University procedures, and if satisfactory bids are received, to award contracts or recommend the award of contracts, as appropriate, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
Employment of Architects/Engineers

Background

Rightmire Hall Renovation, Phase II

This project is the second and final phase of a project to establish a Biotechnology Center at The Ohio State University. Phase II will remodel the basement and first floor of Rightmire Hall to provide office and administrative space and research laboratories to establish the Center's Molecular Neurobiology and Macromolecular Structure/Fermentation programs and support laboratories and facilities critical to the function of the research programs of the Center.

University funds, currently in the amount of $200,000, will be made available for this planning and design work.

(See Appendix LVIII for map, page 1405.)

EMPLOYMENT OF ARCHITECTS/ENGINEERS

Resolution No. 89-127

RIGHTMIRE HALL RENOVATION, PHASE II

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms for the Rightmire Hall Renovation, Phase II.

WHEREAS the Rightmire Hall Renovation, Phase II will complete the phased project to establish a Biotechnology Center at the University; and

WHEREAS this project will remodel the basement and first floor of Rightmire Hall to provide office and administrative space and research laboratories to establish the Center's Molecular Neurobiology and Macromolecular Structure/Fermentation programs; and

WHEREAS $200,000 is available from University funds for this initial planning and design work:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project, and that the fees for these services be negotiated between the firm selected and the University, with such actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
June 2, 1989 meeting, Board of Trustees

Request for Construction Bids

Background

Parking Lot Renovations

This project will reconstruct the 8th and 9th Avenue Parking Lots by adding storm drainage, grading, paving using asphaltic concrete, and concrete curbing.

Traffic and Parking funds are available for this project. The construction costs are estimated at $179,555, and the total estimated project cost is $211,818.

(See Appendix LX for map, page 1407.)

REQUEST FOR CONSTRUCTION BIDS

Resolution No. 89-128

PARKING LOT RENOVATION

Synopsis: The Fiscal Affairs Committee recommended authorization to request construction bids for the Parking Lot Renovation.

WHEREAS the 8th and 9th Avenue Parking Lots are to be reconstructed by adding storm drainage, grading, paving using asphaltic concrete, and concrete curbing installation; and

WHEREAS $211,818 is available from Traffic and Parking for this project, with the estimated construction cost being $179,555:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids for this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all action to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix LXI for a complete tabulation of bids on all projects and locator maps, page 1409. Amounts shown with an * include accepted alternates.)

Lima Campus - Masonry Repairs and Roof Replacement

This project will replace the roof, flashing, and deteriorated mortar joints on the J. McLean Reed Student Activities Building and Galvin Hall on the Lima Regional Campus. The total project cost is $156,000; funding is provided from State capital appropriations (House Bill 810). The estimated completion date is July 1989 for the masonry work and August 1989 for the roof. Contracts awarded are as follows:
Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Lima Campus - Masonry Repairs and Roof Replacement (contd)

General Contract (Masonry):
J & P Paving, Columbus, Ohio
Amount: $17,872.00
Estimate: $28,250.00

General Contract (Roof):
New Tech, Lima, Ohio
Amount: $124,871.00
Estimate: $127,000.00

Total All Contracts: $142,743.00
Contingency Allowance: $11,422.58
(8% of construction cost)
Total Project Cost: $156,000.00

OARDC - Fisher Auditorium Roof Replacement

This project replaces the deteriorated roof on the Fisher Auditorium at the Ohio Agricultural Research and Development Center in Wooster. The total project cost is $51,170; funding is provided from State capital appropriations (Senate Bill 386). The estimated completion date is September 1989. The contract awarded is as follows:

General Contract:
Franklin Roofing, Painesville, Ohio
Amount: $44,700.00
Estimate: $64,100.00
Total All Contracts: $44,700.00
Contingency Allowance: $4,470.00
(10% of construction cost)
Total Project Cost: $51,170.00

Scott Hall Remodeling - Phase I

This project will remodel part of the basement to provide space for the Ice Core Lab for the Byrd Center; part of the first floor to provide laboratories and office space for the Eminent Scholar in Hydrogeology; and part of the second floor to provide a Stable Isotope Lab. The total project cost is $285,000; funding is provided from University funds. The estimated completion date is December 1989. Contracts awarded are as follows:
June 2, 1989 meeting, Board of Trustees

Report of Award of Contracts and
Establishment of Contingency Funds (contd)

Background (contd)

Scott Hall Remodeling - Phase I (contd)

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Description</th>
<th>Amount</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>Good Home Maintenance, Columbus, Ohio</td>
<td>$82,812.00 *</td>
<td>$180,150.00 *</td>
</tr>
<tr>
<td>Plumbing Contract</td>
<td>Westland Mechanical, Columbus, Ohio</td>
<td>$44,500.00 *</td>
<td>$67,100.00 *</td>
</tr>
<tr>
<td>HVAC Contract</td>
<td>J. A. Guy, Dublin, Ohio</td>
<td>$60,600.00 *</td>
<td>$75,700.00 *</td>
</tr>
<tr>
<td>Electric Contract</td>
<td>Power National, Lancaster, Ohio</td>
<td>$39,267.00 *</td>
<td>$54,500.00 *</td>
</tr>
<tr>
<td>Total All Contracts</td>
<td></td>
<td>$227,179.00 *</td>
<td></td>
</tr>
</tbody>
</table>

Contingency Allowance: $19,142.73

Total Project Cost: $285,000.00 *

Ohio Stadium - Rehabilitation of Exterior Concrete

This project will clean all exterior surfaces by high pressure water blasting, seal all concrete and stucco surfaces with a clear sealer to minimize water absorption, repair deteriorated concrete, replace old aluminum windows, and add finished stucco surface to cover the concrete block walls of the press box in the Ohio Stadium. The total project cost is $702,750; funding is provided from the Department of Athletics. The estimated completion date is November 1989. Contracts awarded are as follows:

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Description</th>
<th>Amount</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>Martin Construction, Columbus, Ohio</td>
<td>$579,530.00</td>
<td>$958,000.00</td>
</tr>
<tr>
<td>Total All Contracts</td>
<td></td>
<td>$579,530.00</td>
<td></td>
</tr>
</tbody>
</table>
June 2, 1989 meeting, Board of Trustees

Report of Award of Contracts and
Establishment of Contingency Funds (contd)

Background (contd)

Ohio Stadium - Rehabilitation of Exterior Concrete (contd)

Contingency Allowance: $57,953.00
(10% of construction cost)

Total Project Cost: $702,750.00

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 89-129

LIMA CAMPUS - MASONRY REPAIRS AND ROOF REPLACEMENT
OARDC - FISHER AUDITORIUM ROOF REPLACEMENT
SCOTT HALL REMODELING - PHASE I
OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to the lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Lima Campus - Masonry Repairs and Roof Replacement project; and

WHEREAS a resolution adopted by the Board of Control of the Ohio Agricultural Research and Development Center in 1981 authorized OARDC to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the OARDC - Fisher Auditorium Roof Replacement project; and

WHEREAS a resolution adopted by the Board of Trustees on April 7, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Scott Hall Remodeling - Phase I and Ohio Stadium - Rehabilitation of Exterior Concrete:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Lima Campus Masonry Repairs and Roof Replacement, OARDC Fisher Auditorium Roof Replacement, Scott Hall Remodeling Phase I, and Ohio Stadium Rehabilitation of Exterior Concrete projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

1373
June 2, 1989 meeting, Board of Trustees

Lease of Land to Union Township
1.5 Acres in Brown County, Ohio

Background

Location and Description

The 1.5 acre tract, titled in the State of Ohio for the use of The Ohio State University, is located at the northwest corner of the Ohio Agricultural Research and Development Center's Southern Branch, which encompasses approximately 275 acres in Brown County. The property is approximately four miles north of Ripley, Ohio.

U.S. Route 68 and 62 is the western boundary of most of the Southern Branch property; however, this tract and another small parcel are west of the highway and thus are separated from the remainder of the property. The tract is mowed regularly but because of its size and location is not used for research or crop production and is not presently needed by OARDC for academic, research, or support activities.

Proposed Use of the Property

The Board of Trustee of Union Township desire to use the property for the storage of highway maintenance equipment and supplies. The township proposes to construct a small maintenance building (approximately 1,200 square feet) on the site.

Appraisal and Terms of the Lease

Based on a form appraisal in April 1989, by J.V. Rittenhouse, MSA, the fair market rental value of the property is $1,450.00 per acre which would yield an annual rental rate of $261.00 for the 1.5 acre tract. The University proposes to lease the land at an annual rental of $300.00 for a term of 25 years. Rental income would provide general support for OARDC programs.

(See Appendix LXII for map on Lease of Land to Union Township 1.5 Acres in Brown County, Ohio, page 1419.)

LEASE OF LAND TO UNION TOWNSHIP
1.5 ACRES IN BROWN COUNTY, OHIO

Resolution No. 89-130

Synopsis: The Fiscal Affairs Committee recommended the lease of 1.5 acres in Brown County to the Union Township Trustees.

WHEREAS The Ohio State University owns approximately 1.5 acres of undeveloped land at the Ohio Agricultural Research and Development Center's Southern Branch in Brown County, Ohio; and

WHEREAS the Board of Trustees of Union Township in Brown County desires to lease this 1.5 acre tract for the purpose of constructing a building which, with the remainder of the site, would be used for storage of highway maintenance equipment and supplies; and

WHEREAS the appropriate University offices have determined that a long-term lease of this land to the Union Township Trustees is in the best interest of the University:

NOW THEREFORE
June 2, 1989 meeting, Board of Trustees

LEASE OF LAND TO UNION TOWNSHIP
1.5 ACRES IN BROWN COUNTY, OHIO (contd)

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees, to negotiate a long-term lease of this 1.5 acre tract in Brown County to the Board of Trustees of Union Township for the exclusive purpose described above, at a rental rate based on the market value of the property and upon such other terms and conditions as are deemed to be in the best interest of the University and to request the Ohio Department of Administrative Services, on behalf of the University, to develop and execute the necessary legal instruments for this lease.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

President Jennings:

It now appears likely that state appropriations for the 1989-91 biennium for higher education will not be approved until mid to late June at the earliest. As a consequence, full approval of the University's 1989-90 budget must be deferred until our July meeting. The timing of the state budget process adds a great deal of uncertainty to our fiscal planning this year but, nevertheless, we must proceed in this climate of uncertainty since our 1988-89 fiscal year will close June 30.

It is clear that whatever the final outcome, the 1989-90 University budget will be exceedingly tight. The most recent actions of the House and the Senate have substantially improved on the Executive proposals, and for that we are very grateful. While the increases to the instructional subsidy recommended by the House and Senate are significant, the recommendations now under consideration, nevertheless, fall considerably short of what is needed to maintain our operations at existing levels.

Last January, as we began the legislative process, it was noted that to account for inflation, and keep the student share of cost at an already too high 41 percent, an additional state appropriation of $200 million for higher education beyond the Governor's recommendation would be required. The House and Senate figures -- while a great improvement -- fall $64 million short. Furthermore, it also was noted that to continue the progress made by higher education in Ohio, particularly early in this decade, required another $200 million. In essence the current proposals are $264 million short of the modest higher education goals of quality and access. The state higher education community faces some difficult decisions.

As I told the House Finance-Appropriations Committee last February and the Senate Finance Education Subcommittee last month, I am extremely proud of the accomplishments of our distinguished faculty members, our dedicated staff members, and our talented students. Ohio State's achievements have been made possible in partnership with the state, through consistent efforts by all decision makers across the University to contain costs and allocate resources wisely. Ohio State has attracted external funds to a greater extent than ever before through the successful fund-raising campaign and through external research support. We have done our share -- and will continue to do so.
President Jennings: (contd)

Now, recognizing that there are many competing demands for limited state revenues, we are in a most difficult budget period. As we consider the 1989-90 budget, the priorities that are guiding our planning are to continue to keep costs down, to sustain the momentum as well as meet prior commitments, and to continue to enhance quality while being mindful of our unique mission as Ohio's land-grant research University. To continue to meet these objectives will test our creativity and will demand a high level of commitment to the University on the part of all members of our Ohio State community.

Within the context of these priorities, we must move forward with our planning as we enter the new fiscal year. Today, I am prepared to present for your consideration the expense guidelines for what will be an exceptionally tight budget, regardless of the final outcome of the legislative deliberations.

As in the past, the University Senate's Fiscal Committee and the Faculty Compensation and Benefits Committee have been consulted in the budget planning process. In particular, the Faculty Compensation and Benefits Committee placed before us recommendations to keep our faculty salaries competitive with peer institutions. However, we are not able to fund these recommendations.

Rather, circumstances dictate a different approach to salaries at our University. In this period of scarce resources, I believe that it is imperative that we give strong consideration to our junior faculty and staff colleagues at the lower end of the pay ranges. For this reason, I am recommending an increase for all of our faculty and staff members at the full-time rate of $480 across-the-board. We also will provide each college and office an additional 2 percent for selective merit increases. We will continue our practice of making a pool of $1.3 million available for equity, excellence, and market adjustments. Further, I do not anticipate providing any central funding to adjust equipment and supplies budgets for the coming year. The colleges and offices will have to accommodate cost increases for supplies and equipment through internal reallocations.

Due to the uncertainty of the outcome of the continuing deliberations in the General Assembly, I am not presenting revenue guidelines today. We must defer our decision on student tuitions until July. We enter this process with a demonstrated historical and continuing commitment to keeping the tuitions for our students as low as we responsibly can. I indicated earlier this year that with insufficient state support for the instructional subsidy, and with the apparent lack of state recognition for keeping tuitions low, we would have little choice but to increase tuitions. The extent of these increases is as yet unknown, however.

It is instructive to note that the latest proposal recommends a tuition increase cap of 7 percent on undergraduate instructional fees and yet funds Ohio State as though its tuitions were at the higher levels assumed in the Senate recommendations. In fact, this University has kept its tuitions significantly below these assumed levels -- 30 percent below the currently proposed assumptions. It is clear that the budget now under consideration penalizes institutions which have demonstrated their commitment to access through lower tuitions. Ohio State's budget is tight because of the $22 million annual shortfall that results from the lack of recognition of our low tuitions in the proposed state budget.
President Jennings: (contd)

Suggesting guidelines to you for the 1989-90 budget before having a full picture of the institution's available resources contains risk, but a risk that can be dealt with in several ways. First, I remain optimistic that the General Assembly will produce a higher education budget that restores higher education to a top priority of state government. We have seen that the House and Senate each has substantially improved on the Executive budget. I share with my colleagues around the state our hope for adequate appropriations and am confident that the General Assembly will make every effort to improve our current situation.

To ensure that we maintain the momentum we have worked so hard to achieve, we must continue to look to ourselves. We must continue to control costs and effectively reallocate resources, mindful of the fundamental mission of this institution. We must focus our attention on the academic core of our great University, being certain that quality is not compromised. This will mean considerable sacrifice and difficult decisions in all areas, particularly those not directly related to our primary educational mission. I am asking each of the vice presidents to identify those activities and programs receiving general funds which are in support of, but not central to, our fundamental academic mission. These budgets will be reviewed carefully and general funds may be reallocated in support of the academic core.

In addition, each college and office will begin immediately to define expenditures equal to 1 percent of their total budget to be reallocated. While their reallocated funds will remain in each college or office, the deans and vice presidents will have to demonstrate how they have used these reallocated resources to meet their highest priority needs as identified during their budget hearings.

To deal with scarce resources in the coming year, we must limit our costs; however, we will not limit our energies in the pursuit of excellence. I am proud of all that is being accomplished at this University, and I remain confident that together we can take the steps needed to continue our achievements.

Ms. Casto:

I have a statement. I think it is important that we continue, in this tight budget year, in Ohio State's tradition of keeping education affordable. The Congress of the United States has taken the initiative to vote down a salary increase. Some feel it is due to a public outcry of spending. I feel that at this time it's important that we follow this example, so that we are able to address the issue and the need of an affordable education.

It has been difficult to make this decision but I do feel with this tight budget that I have to vote no this year. Thank you.

EXPENDITURE AUTHORIZATION 1989-90

Resolution No. 89-131

Synopsis: The Fiscal Affairs Committee recommended authorization to make interim expenditures in Fiscal Year 1989-90 is proposed.

WHEREAS levels of State financial support for 1989-90 have not yet been established; and
EXPENDITURE AUTHORIZATION 1989-90 (contd)

WHEREAS this University must proceed with its budget planning for 1989-90 even with the current uncertainties in State revenues; and

WHEREAS it is necessary to authorize expenditures for 1989-90 to be effective July 1, 1989, including payment of faculty and staff, prior to the time that this Board adopts the Current Funds Budget for 1989-90:

NOW THEREFORE

BE IT RESOLVED, That the University be authorized to make expenditures consistent with the budget guidelines and the Provisional Current Funds Budget for Fiscal Year 1989-90, as described in the accompanying table, effective July 1, 1989; and

BE IT FURTHER RESOLVED, That the President will present as soon as possible to the Board of Trustees the final version of the Current Funds Budget for 1989-90 with adjustments as may be necessary as a result of the final actions of the General Assembly and Governor of the State of Ohio.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution with seven affirmative votes cast by Messrs. Berry, Teaford, Barone, Kessler, Wolf, and Wexner, and Mrs. Bowser, and a negative vote cast by Ms. Casto.

(See Appendix LXIII for the chart on The Ohio State University 1989-90 Provisional Current Funds Budget, page 1421.)

Thereupon the Board adjourned to meet Friday, July 7, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

John W. Berry
Chairman
APPENDIX LIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
May 19, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees June 2, 1989
(See page 1313)
Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>Percent of Equity and Fixed Income</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>06-30-88</td>
<td>05-19-89</td>
</tr>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$38,004,379</td>
<td>$42,180,382</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>10,454,591</td>
<td>11,902,867</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,428,707</td>
<td>39,519,366</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>17,462,592</td>
<td>20,197,873</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>33,282,386</td>
<td>55,034,446</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$133,632,655</td>
<td>$168,834,934</td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatmen’s Trust (1)</td>
<td>$21,547,467</td>
<td>$22,178,298</td>
</tr>
<tr>
<td>Cambridge</td>
<td>921,925</td>
<td>903,496</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>9,983,561</td>
<td>9,957,729</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>22,300,069</td>
<td>22,949,087</td>
</tr>
<tr>
<td>OSU - GNMA</td>
<td>9,954,372</td>
<td>9,916,989</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,502,840</td>
<td>6,468,735</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td><strong>$71,210</strong></td>
<td><strong>$72,374,334</strong></td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td><strong>$204,842,889</strong></td>
<td><strong>$241,209,268</strong></td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td><strong>$43,089,186</strong></td>
<td><strong>$36,560,317</strong></td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td><strong>$247,932,075</strong></td>
<td><strong>$277,777,585</strong></td>
</tr>
</tbody>
</table>

(1) Formerly Centerre Trust.
(2) Real Estate reported at most recent appraised value.
### Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th></th>
<th>% Yield</th>
<th>% Change in Market Value May '88 to May '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equity:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.65% (1)</td>
<td>18.32%</td>
<td>21.97%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.75 (2)</td>
<td>26.66</td>
<td>28.41</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>4.44 (3)</td>
<td>22.77</td>
<td>27.21</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>2.97</td>
<td>24.05</td>
<td>27.02</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>5.01 (4)</td>
<td>13.68</td>
<td>18.69</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.81</td>
<td>26.96</td>
<td>30.77</td>
</tr>
<tr>
<td><strong>Real Estate:</strong></td>
<td>4.37%</td>
<td>-0- (11)</td>
<td>4.37%</td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bonds (Boatmen's Trust, formerly Centerre Trust)</td>
<td>8.45% (5)</td>
<td>1.86%</td>
<td>10.31%</td>
</tr>
<tr>
<td>Bonds (Cambridge)</td>
<td>8.52 (6)</td>
<td>(2.67)</td>
<td>5.85</td>
</tr>
<tr>
<td>Bonds (Duff &amp; Phelps)</td>
<td>8.85 (7)</td>
<td>1.48</td>
<td>10.33</td>
</tr>
<tr>
<td>Bonds (STW Fixed Income)</td>
<td>9.27 (8)</td>
<td>7.94</td>
<td>17.21</td>
</tr>
<tr>
<td>Bonds (OSU - GNMA)</td>
<td>9.95 (9)</td>
<td>1.57</td>
<td>11.52</td>
</tr>
<tr>
<td>Bonds (OSU Managed)</td>
<td>8.28 (10)</td>
<td>(0.59)</td>
<td>7.69</td>
</tr>
<tr>
<td>Merrill Lynch Corporate/ Government Master</td>
<td>9.13</td>
<td>1.53</td>
<td>10.66</td>
</tr>
</tbody>
</table>

(1) 19.6% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.6%.
(2) 0.4% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.9%.
(3) 49.5% of Siebel portfolio is made up of cash and cash equivalents which earn 9.7%.
(4) 50.8% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.8%.
(5) 14.6% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.3%.
(6) 4.2% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.9%.
(7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.9%.
(8) 0.9% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.9%.
(9) 0.9% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.9%.
(10) 92.8% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.8%.
(11) Not able to compare 12 months.
(13) Income from University Cash Investments through May 31, 1989, totaled approximately $13,021,000.

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-88)</td>
<td>$247,932,075</td>
<td>Equities</td>
<td>$113,029,853</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>12,838,074</td>
<td>Fixed Income</td>
<td>62,668,522</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(166,410)</td>
<td>Real Estate</td>
<td>36,458,000</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>17,173,846</td>
<td>Cash</td>
<td>65,621,210</td>
</tr>
<tr>
<td><strong>Current Market Value</strong></td>
<td>$277,777,585</td>
<td>Total Portfolio</td>
<td>$277,777,585</td>
</tr>
</tbody>
</table>

1381
Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,000</td>
<td>U.S. Savings Bond, Series H*</td>
<td>OSU</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Real Estate

**Sale**

No Activity

* Gift.
### Common & Preferred Stock

**Purchases Made During Period**

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,500</td>
<td>Becton Dickson &amp; Co.</td>
<td>Chicago</td>
<td>54.4471</td>
<td>$190,792.00</td>
<td>$3,500.00</td>
</tr>
<tr>
<td>2,400</td>
<td>Boeing Co.</td>
<td>&quot;</td>
<td>78.7500</td>
<td>189,156.00</td>
<td>4,320.00</td>
</tr>
<tr>
<td>6,300</td>
<td>Community Psychiatric Centers</td>
<td>&quot;</td>
<td>30.2050</td>
<td>190,701.00</td>
<td>2,260.00</td>
</tr>
<tr>
<td>5,500</td>
<td>ConAgra, Inc.</td>
<td>&quot;</td>
<td>34.6251</td>
<td>190,795.00</td>
<td>4,235.00</td>
</tr>
<tr>
<td>5,700</td>
<td>Corning, Inc.</td>
<td>&quot;</td>
<td>33.0000</td>
<td>188,470.50</td>
<td>4,560.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Crompton &amp; Knowles Corp.</td>
<td>&quot;</td>
<td>38.7824</td>
<td>194,237.00</td>
<td>6,200.00</td>
</tr>
<tr>
<td>11,000</td>
<td>First Alabama Bancshares</td>
<td>&quot;</td>
<td>17.5000</td>
<td>192,500.00</td>
<td>9,240.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Limited, Inc.</td>
<td>&quot;</td>
<td>32.0430</td>
<td>160,540.00</td>
<td>1,200.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Times Mirror Corp., Cl. A</td>
<td>&quot;</td>
<td>37.7750</td>
<td>189,200.00</td>
<td>5,000.00</td>
</tr>
<tr>
<td>5,700</td>
<td>Applied Biosystems, Nicholas-Inc.</td>
<td>Applegate</td>
<td>35.9467</td>
<td>204,896.00</td>
<td>0.00</td>
</tr>
<tr>
<td>9,900</td>
<td>Comcast Corp., Cl. A</td>
<td>&quot;</td>
<td>22.3952</td>
<td>231,612.50</td>
<td>1,188.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Costco Wholesalers Corp.</td>
<td>&quot;</td>
<td>22.9631</td>
<td>229,631.10</td>
<td>0.00</td>
</tr>
<tr>
<td>7,900</td>
<td>Oracle Systems Corp.</td>
<td>&quot;</td>
<td>28.4596</td>
<td>224,870.50</td>
<td>0.00</td>
</tr>
<tr>
<td>400</td>
<td>Seagate Technology</td>
<td>&quot;</td>
<td>13.3250</td>
<td>5,330.00</td>
<td>0.00</td>
</tr>
<tr>
<td>18,600</td>
<td>U.S. Health Care, Inc.</td>
<td>&quot;</td>
<td>12.6044</td>
<td>234,521.40</td>
<td>3,720.00</td>
</tr>
<tr>
<td>50</td>
<td>Exxon Corp.*</td>
<td>OSU</td>
<td>44.6876</td>
<td>2,234.38</td>
<td>110.00</td>
</tr>
<tr>
<td>754</td>
<td>Evergreen Total Return Fund*</td>
<td>&quot;</td>
<td>17.8800</td>
<td>13,472.83</td>
<td>0.00</td>
</tr>
<tr>
<td>16,500</td>
<td>Consolidated Rail Corp.</td>
<td>Siebel</td>
<td>35.8340</td>
<td>592,416.00</td>
<td>19,800.00</td>
</tr>
<tr>
<td>10,400</td>
<td>Mitchell Energy &amp; Development Corp.</td>
<td>&quot;</td>
<td>16.0685</td>
<td>167,786.60</td>
<td>2,496.00</td>
</tr>
</tbody>
</table>

$3,593,162.81 \( \text{Total Investment} \) + $67,837.00 \( \text{Total Dividend} \) = $3,660,999.81

* Gift.
### The Ohio State University
#### Common & Preferred Stock

#### Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss)</th>
<th>On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,500</td>
<td>Acn Corp.</td>
<td>Chicago</td>
<td>33.5250</td>
<td>$184,023.85</td>
<td>$23,330.35</td>
<td></td>
</tr>
<tr>
<td>6,000</td>
<td>Dexter Corp.</td>
<td>&quot;</td>
<td>28.9560</td>
<td>173,340.20</td>
<td>19,986.20</td>
<td></td>
</tr>
<tr>
<td>1,600</td>
<td>Digital Equipment Corp.</td>
<td>&quot;</td>
<td>96.7570</td>
<td>154,702.03</td>
<td>6,798.03</td>
<td></td>
</tr>
<tr>
<td>3,500</td>
<td>Duke Power Co.</td>
<td>&quot;</td>
<td>45.8620</td>
<td>160,284.14</td>
<td>9,913.64</td>
<td></td>
</tr>
<tr>
<td>3,100</td>
<td>Hilton Hotels Corp.</td>
<td>&quot;</td>
<td>62.3790</td>
<td>193,166.95</td>
<td>38,032.17</td>
<td></td>
</tr>
<tr>
<td>3,600</td>
<td>Lockheed Corp.</td>
<td>&quot;</td>
<td>46.6270</td>
<td>167,617.60</td>
<td>12,583.60</td>
<td></td>
</tr>
<tr>
<td>4,500</td>
<td>Millipore Corp.</td>
<td>&quot;</td>
<td>32.0000</td>
<td>143,702.70</td>
<td>(10,152.30)</td>
<td></td>
</tr>
<tr>
<td>4,200</td>
<td>Morgan (JP) &amp; Co., Inc.</td>
<td>&quot;</td>
<td>36.4930</td>
<td>152,992.49</td>
<td>(3,730.51)</td>
<td></td>
</tr>
<tr>
<td>4,800</td>
<td>Precision Castparts Corp.</td>
<td>&quot;</td>
<td>31.6250</td>
<td>151,800.00</td>
<td>(12,600.00)</td>
<td></td>
</tr>
<tr>
<td>4,930</td>
<td>Prime Motor Inns, Inc.</td>
<td>&quot;</td>
<td>30.2750</td>
<td>148,930.32</td>
<td>(14,876.28)</td>
<td></td>
</tr>
<tr>
<td>6,000</td>
<td>Wisconsin Energy Corp.</td>
<td>&quot;</td>
<td>26.6250</td>
<td>159,354.67</td>
<td>5,124.67</td>
<td></td>
</tr>
<tr>
<td>3,000</td>
<td>Woolworth (FW) Co.</td>
<td>&quot;</td>
<td>51.6600</td>
<td>154,779.83</td>
<td>2,757.83</td>
<td></td>
</tr>
<tr>
<td>1,300</td>
<td>Albertson's, Inc.</td>
<td>Nicholas-Applegate</td>
<td>43.2500</td>
<td>56,145.12</td>
<td>18,908.17</td>
<td></td>
</tr>
<tr>
<td>13,200</td>
<td>Bear Stearns Cos., Inc.</td>
<td>&quot;</td>
<td>14.0992</td>
<td>185,310.81</td>
<td>(12,058.79)</td>
<td></td>
</tr>
<tr>
<td>8,200</td>
<td>Fleetwood Enterprises, Inc.</td>
<td>&quot;</td>
<td>24.9825</td>
<td>204,357.85</td>
<td>447.75</td>
<td></td>
</tr>
<tr>
<td>3,500</td>
<td>Household International, Inc.</td>
<td>&quot;</td>
<td>50.7051</td>
<td>177,252.07</td>
<td>28,894.98</td>
<td></td>
</tr>
<tr>
<td>4,900</td>
<td>Inland Steel, Inc.</td>
<td>&quot;</td>
<td>38.8109</td>
<td>189,873.15</td>
<td>4,709.15</td>
<td></td>
</tr>
<tr>
<td>8,900</td>
<td>Salomon, Inc.</td>
<td>&quot;</td>
<td>23.6028</td>
<td>209,523.99</td>
<td>425.35</td>
<td></td>
</tr>
<tr>
<td>2,000</td>
<td>Union Bank of San Francisco</td>
<td>&quot;</td>
<td>24.8750</td>
<td>49,750.00</td>
<td>(4,250.00)</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>Standard Products Co.*</td>
<td>OSU</td>
<td>29.0000</td>
<td>17,299.42</td>
<td>(250.58)</td>
<td></td>
</tr>
<tr>
<td>2,735</td>
<td>Van Kampen Merritt U.S. Gov't. Fund*</td>
<td>&quot;</td>
<td>14.6000</td>
<td>39,931.00</td>
<td>(54.75)</td>
<td></td>
</tr>
<tr>
<td>8,400</td>
<td>Federal National Mortgage Assn.</td>
<td>Siebel</td>
<td>80.9350</td>
<td>679,243.33</td>
<td>421,761.48</td>
<td></td>
</tr>
<tr>
<td>9,000</td>
<td>Holiday Corp.</td>
<td>&quot;</td>
<td>44.7500</td>
<td>402,196.57</td>
<td>156,097.57</td>
<td></td>
</tr>
<tr>
<td>1,300</td>
<td>Loews Corp.</td>
<td>&quot;</td>
<td>92.2500</td>
<td>119,830.00</td>
<td>60,294.93</td>
<td></td>
</tr>
<tr>
<td>5,100</td>
<td>PepsiCo, Inc.</td>
<td>&quot;</td>
<td>47.7500</td>
<td>243,159.88</td>
<td>103,415.88</td>
<td></td>
</tr>
</tbody>
</table>

* Gift.

Total: $4,518,567.97   $855,512.54
### The Ohio State University
### Bonds/Notes

#### Purchases Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>625,000</td>
<td>U.S. Treasury Bond</td>
<td>Boatmen's</td>
<td>8.9788</td>
<td>8.9660</td>
<td>98.8438</td>
<td>$617,773.44</td>
</tr>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond</td>
<td>Cambridge</td>
<td>9.3663</td>
<td>9.3998</td>
<td>94.7543</td>
<td>$852,782.06</td>
</tr>
</tbody>
</table>

$1,470,562.50
The Ohio State University
Bonds/Notes

Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>820,000 Community Program Loan Trust</td>
<td>4.500% 10/01/18</td>
<td>Boatmen's</td>
<td>55.4062</td>
<td>$454,331.25</td>
<td>$8,843.91</td>
</tr>
<tr>
<td>1,195,000 Northwestern Bell Telephone</td>
<td>8.125% 03/15/17</td>
<td>&quot;</td>
<td>84.3842</td>
<td>1,008,390.70</td>
<td>10,565.70</td>
</tr>
<tr>
<td>900,000 U.S. Treasury Bond</td>
<td>8.875% 02/15/19</td>
<td>Cambridge</td>
<td>97.9062</td>
<td>881,156.25</td>
<td>(4,218.75)</td>
</tr>
</tbody>
</table>

$2,343,678.20 | $15,190.86
### THE OHIO STATE UNIVERSITY ENDOWMENT FUND
#### REAL ESTATE INVESTMENTS

| Building and 3.295 acres at 930 Ewing Road | 10.46% | 1962 | $435,204 | 650,910 | 06/87 |
| Building and 5.56 acres at 1100 Ewing Road | 12.00% | 1984 | 825,000 | 1,900,000 | 06/87 |
| Building and 2.633 acres at 1900 Kenny Road | 10.47% | 1961 | 659,910 | 1,150,000 | 06/87 |
| Building and 6.41 acres at 1960 Kenny Road | 8.89% | 1971 | 1,320,693 | 2,300,000 | 06/87 |
| Building and 6.328 acres at 1991 Kenny Road | 3.18% | 1960 | 170,000 | 570,000 | 06/87 |
| 46.984 acres of land in Delaware County | 0.00% | 1971 | 100,793 | 137,000 | 06/87 |
| Hangar at Don Scott Field (Loan) | 0.00% | 1973 | 32,664 (1) | 32,664 | N/A |
| Hangar addition at Don Scott Field (Loan) | 10.00% | 1978 | 77,653 (1) | 77,653 | N/A |
| House and .23 acres of land, 760 Beautyview Court | 0.00% | 1968 | 100,000 | 100,000 | 06/88 |
| 94.3 acres of land on Harrisburg Pike | 0.00% | 1986 | 190,000 | 250,000 | 10/87 |
| 51 acres of land, 2809 West Granville Road | 0.00% | 1962 | 160,265 | 2,762,000 | 06/87 |
| 48.52 acres of land, 3025 West Granville Road | 0.00% | 1972 | 344,398 | 4,124,000 | 06/87 |
| 76.143 acres of land, 3253 West Granville Road | 0.40% | 1968 | 310,538 | 6,472,000 | 06/87 |
| 30.539 acres of land, 3371 West Granville Road | 0.00% | 1971 | 265,079 | 2,596,000 | 06/87 |
| 32 acres of land, 3371 West Granville Road | 0.00% | 1986 | 2,078,666 | 2,720,000 | 06/87 |
| 12 acres of land, 3483 West Granville Road | 0.00% | 1965 | 24,000 | 1,020,000 | 06/87 |
| 8.553 acres of land, 3505 West Granville Road | 0.00% | 1968 | 17,114 | 727,000 | 06/87 |
| Undivided one-half interest in building and | | | | | |
| .65 acres at 1375 South Hamilton Road | 0.00% | 1986 | 95,000 | 95,000 | 01/86 |
| 20.998 acres of land on Shier-Rings Road | 0.00% | 1978 | 241,848 | 950,000 | 05/88 |
| 17.92 acres of land on Eisterman Road | 3.73% | 1978 | 25,152 | 725,000 | 05/88 |
| Veterans Administration Clinic | 5.67% | 1979 | 3,767,221 | 6,460,000 | 02/85 |
| | | | $11,441,238 | $36,366,317 | |

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Solicitations
Date: May 31, 1989
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of May 1989, the University voted 20 proxies.

Management proposals were as follows:

1) Ratification of the Board of Directors;
2) Approval of Independent Auditors;
3) Approval of the 1989 Incentive Stock Option Plan;
4) Amendment to require an 80% affirmative vote, by the Directors, to elect the president and chief executive officer;
5) Authorize repurchase of common stock;
6) Approve an amendment to the company’s 1988 restricted stock incentive plan;
7) Increase the number of authorized shares of common and preferred stock;
8) Approval of amendments to the Employee Stock Option Plan;
9) Approval of the 1989 Stock Appreciation Rights Plan;
10) Approval of an amendment to the company’s 1988 restricted stock incentive plan;
11) Approval of granting of options to members of Board of Directors;
12) Approval of a share exchange.

Shareholder proposals were as follows:

1) Reinstate election of directors annually, not staggered;
2) Provide for cumulative voting in the election of directors;
3) Implement a policy of secret voting at all shareholders’ meetings;
4) Ensure that goods and services produced in whole or part by slave labor shall not be acceptable for delivery to the Corporation;
5) Require a mandatory retirement policy for members of the board.

The University voted for all management proposals and against all shareholder proposals, which management also opposed.
The 20 corporations were:

1) Albertson's, Incorporated
2) Ames Department Store, Incorporated
3) Autodesk, Incorporated
4) Citizens Utility Company
5) DNA Plant Technology Corporation
6) Food Lion, Incorporated
7) F.W. Woolworth Company
8) Hechinger Company
9) The Limited, Incorporated
10) Masco Corporation
11) May Department Stores, Incorporated
12) McDonalds Corporation
13) Mercantile Stores Companies
14) Newell Company
15) Occidental Petroleum Corporation
16) Student Loan Marketing Association
17) Super Value Stores, Incorporated
18) TriMas Corporation
19) Toys R Us, Incorporated
20) Wal-Mart Stores, Incorporated
Page 1390 is blank
APPENDIX LV

THE OHIO STATE UNIVERSITY ENDOWMENT FUND --
REAL ESTATE INVESTMENTS

Presented to the Investments Committee and
Adopted by the Board of Trustees June 2, 1989
(See page 1313)
# THE OHIO STATE UNIVERSITY ENDOWMENT FUND

## REAL ESTATE INVESTMENTS

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>PURCHASE or GIFT</th>
<th>OBTAINED FROM</th>
<th>ACQUIRED</th>
<th>INVESTED</th>
<th>APPRAISED VALUE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>University area:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1900 Kenny Road</td>
<td>P</td>
<td>OSU - Research Foundation</td>
<td>1961</td>
<td>659,930</td>
<td>1,150,000</td>
<td>06/87</td>
</tr>
<tr>
<td>1960 Kenny Road</td>
<td>P</td>
<td>Estate of Herrick L. Johnston</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,300,000</td>
<td>06/87</td>
</tr>
<tr>
<td>1991 Kenny Road</td>
<td>P</td>
<td>Battelle Memorial Institute</td>
<td>1968</td>
<td>170,000</td>
<td>570,000</td>
<td>06/87</td>
</tr>
<tr>
<td>930 Kinneer Road</td>
<td>P</td>
<td>OMCO Building Corporation</td>
<td>1962</td>
<td>435,204</td>
<td>1,400,000</td>
<td>06/87</td>
</tr>
<tr>
<td>1100 Kinneer Road</td>
<td>P</td>
<td>Allis Chalmers Credit Corporation</td>
<td>1984</td>
<td>825,000</td>
<td>1,900,000</td>
<td>06/87</td>
</tr>
<tr>
<td>VA Clinic</td>
<td>P</td>
<td>Constructed with Endowment Funds</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
</tr>
<tr>
<td>West Granville Road</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2809 - 51 acres</td>
<td>P</td>
<td>Adah S. Prushing</td>
<td>1962</td>
<td>160,265</td>
<td>2,762,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3025 - 49 acres</td>
<td>P</td>
<td>Herschel D. &amp; Beryl L. Mitchell</td>
<td>1972</td>
<td>544,398</td>
<td>4,124,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3253 - 76 acres</td>
<td>P</td>
<td>Gail McGurrer et al</td>
<td>1968</td>
<td>310,538</td>
<td>6,472,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3371 - 31 acres</td>
<td>P</td>
<td>Adah S. Prushing et al</td>
<td>1971</td>
<td>265,079</td>
<td>2,596,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3371 - 32 acres (farm)</td>
<td>P</td>
<td>Adah S. Prushing et al</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,720,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3483 - 12 acres</td>
<td>P</td>
<td>Oran B. Love Construction Company</td>
<td>1965</td>
<td>24,000</td>
<td>1,020,000</td>
<td>06/87</td>
</tr>
<tr>
<td>3505 - 9 acres</td>
<td>P</td>
<td>Nancy M. (Delewese) Fridd et al</td>
<td>1968</td>
<td>17,114</td>
<td>727,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Awaiting Sale</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>760 Beautyview Court</td>
<td>G</td>
<td>Estate of Francis B. McCormick</td>
<td>1988</td>
<td>100,000</td>
<td>100,000</td>
<td>06/88</td>
</tr>
<tr>
<td>Delaware County - 47 acres</td>
<td>P</td>
<td>Nationwide Communications, Inc.</td>
<td>1971</td>
<td>100,793</td>
<td>137,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Eitterman Road - 18 acres</td>
<td>P</td>
<td>Carol Kennedy Trust</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Harrisburg Pike - 95 acres</td>
<td>G</td>
<td>Leonard J. Jawke, Jr.</td>
<td>1986</td>
<td>190,000</td>
<td>250,000</td>
<td>10/87</td>
</tr>
<tr>
<td>1375 S. Hamilton Road</td>
<td>G</td>
<td>Monterey Life Systems, Inc.</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>Shier-Rings Road - 21 acres</td>
<td>G</td>
<td>Carol Kennedy Trust</td>
<td>1978</td>
<td>241,848</td>
<td>950,000</td>
<td>05/88</td>
</tr>
</tbody>
</table>

$11,330,941 $36,458,000
APPENDIX LVI

THE OHIO STATE UNIVERSITY PROMOTION AND TENURE PROCESS

Presented to the Academic Affairs Committee
(See page 1314)
THE OHIO STATE UNIVERSITY

PROMOTION AND TENURE PROCESS

CANDIDATES

→ CHAIRPERSON

部/Division Promotion and Tenure Committee

→ DEAN

College Promotion and Tenure Committee

→ PROVOST

University Promotion and Tenure Committee

→ PRESIDENT

BOARD OF TRUSTEES
### UNIVERSITY-LEVEL PROMOTION AND TENURE RESULTS FOR 1988 AND 1989

**1988** | **1989**
--- | ---
**Total Number of Recommendations** | Yes | No | Yes | No
--- | --- | --- | --- | ---
TOTAL | 167 | 158 (6)* | 9 | 151 | 142 (5)* | 9

**PROFESSORS**

| Promotion | 36 | 35 | 1 | 42 | 35 | 3
| Promotion with Tenure | 3 | 3 (2)* | 0 | 1 | 1 | 0

**ASSOCIATE PROFESSOR**

| Promotion | 18 | 16 | 2 | 11 | 11 | 0
| Promotion with Tenure | 67 | 65 (4)* | 2 | 73 | 68 (4)* | 5
| Tenure | 14 | 14 | 0 | 10 | 10 | 0

**ASSISTANT PROFESSOR**

| Promotion | 7 | 6 | 1 | 5 | 5 | 0
| Promotion with Tenure | 8 | 8 | 0 | 5 | 5 (1)* | 0
| Tenure | 10 | 7 | 3 | 3 | 2 | 1

**INSTRUCTOR**

| Tenure | 4 | 4 | 0 | 1 | 1 | 0

* Number of promotion and tenure recommendations for which tenure only was awarded
PROMOTION AND TENURE CANDIDATES CONSIDERED
BY THE PROVOST'S PROMOTION AND TENURE ADVISORY COMMITTEE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>11</td>
<td>2</td>
<td>4</td>
<td>1</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Cooperative Extension</td>
<td>38</td>
<td>1</td>
<td>23</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td>9</td>
<td></td>
<td>6</td>
<td></td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>5</td>
<td>1</td>
<td>9</td>
<td></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Dentistry</td>
<td>1*</td>
<td></td>
<td>4</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>7</td>
<td></td>
<td>6</td>
<td>2</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>13</td>
<td></td>
<td>17</td>
<td></td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Home Economics</td>
<td>3</td>
<td></td>
<td>4</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>11</td>
<td>1</td>
<td>13</td>
<td>2</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Law</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Libraries</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MPS</td>
<td>15</td>
<td></td>
<td>22</td>
<td></td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td>22</td>
<td></td>
<td>25</td>
<td>1</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td>1</td>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Optometry</td>
<td>0</td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SBS</td>
<td>8</td>
<td></td>
<td>6</td>
<td>2</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Social Work</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Vet Med</td>
<td>5</td>
<td></td>
<td>4</td>
<td>1</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL REGULAR FACULTY</strong></td>
<td><strong>157</strong></td>
<td><strong>8</strong></td>
<td><strong>157</strong></td>
<td><strong>10</strong></td>
<td><strong>151</strong></td>
<td></td>
</tr>
</tbody>
</table>

Agriculture Adjunct 1
Bio Sci Adjunct 1
Dentistry Clinical 1
Education Adjunct 1
MPS Adjunct 1
Medicine Adjunct 1
Medicine (Aux/Clinical) 17
Medicine (Regular Clinicals) 2
Pharmacy Clinicals 4
Vet Med Clinicals 1

| Total | 27               | 23               | 54               |
APPENDIX LVII

DROUGHT TASK FORCE MINUTES
April 7, 1989

Presented to the Agricultural Affairs Committee
(See page 1347)
DROUGHT TASK FORCE
MINUTES

April 7, 1989

The Drought Task Force met on April 7, 1989 to assess the drought situation and consider recommendations as a result of what was learned.

OBSERVATIONS

• The 1987-88 drought appears to be over based on

1) Palmer Drought Index, except for some stations in NW Ohio still reporting below normal ppt, shows moist or no stress conditions.
2) Reservoirs are near normal.
3) Soil moisture within the root zone appears to be near normal although substrata moisture in some areas reported to be below normal.
4) Tile lines are draining in most areas of Ohio, indicating saturated conditions.
5) Stream flows are within normal/above normal range at this time of year for most of Ohio.
6) Water tables are rebounding.

• Agriculture will still be impacted by drought in '89

1) pesticide carryover, especially herbicides, expected; thus rotations changed and damage could result if rotations not changed.
2) tree seedlings (forestry, Xmas trees, orchards) were severely damaged in '89 (>80-85% mortality); thus heavy replanting in '89 anticipated. No long-term forest impact expected.
3) Food prices will be impacted in '89, adding 1.5-2% on top of the expected 4% increase, at least during 1st quarter of '89.
4) It is anticipated that crop insurance interest, application will increase in '89, a typical reaction after any climatic stress.
5) Gov't. program participation is likely to be down as a result of higher crop prices, again a typical reaction to higher commodity prices (approx. 70% compared to 80-85% normal).
6) interest in irrigation among some farmers will continue as modified by how wet/dry this spring is; particularly as an "insurance" practice to overcome occasional dry "humps."
7) The drought led to a temporary reprieve of the food/grain glut which came at the same time of the GATT negotiations and US Farm Bill development, thereby impacting the character of these policy instruments more so than if they were negotiated under more typical weather patterns.

CONCLUSIONS/RECOMMENDATIONS

• Several things were learned from the drought in reference to our (OSU) response:

1) A media focus is needed under such stress; it took us a while to get this under control although the public and media were well-served. Recommendation: Coordinate with ODA-ODNR-Gov. Office.
2) We were not well equipped (OCES) to deal with the emotional stress of our clientele that are weather-dependent. Recommendation: College of Home Economics now has a new resource on board but we must be careful to respect our boundaries of knowledge and know when to recommend professional help.
3) We are not well-resourced with respect to legal issues - many questions were fielded on water rights, insurance liability, pest management system failures, etc. Recommendation: assess the need for refilling a position in this area.
4) We need resources to deal with irrigation - we are not well resourced with up-to-date printed material and economics and there will continue to be interest in this area, particularly with respect to horticultural crops and where they are rotated with agronomic crops. Recommendation: We are currently reviewing documents from other states and recommend that Ag Engineering develop resources in this area.

5) The attempt to keep the county offices at the center of the information distribution seems to have proven both successful and beneficial to the OCES/OSU response. Recommendation: Maintain this delivery system.

6) We must be conscious when to back off; the FSR program did not draw well - the drought and its impact were essentially over as far as the growing season was concerned. Recommendation: Trust collective judgement based on consumer demand for information.

- In short, the College response, primarily through OCES with intense OARDC back-up, appears to have been executed well. Feedback has been positive. We can be proud of our collective response - especially in times of declining resources.
Response To The 1988 Drought

Planning, coordination and communication are the keys to a successful crisis response. When in drought, do like we did:

Get the experts together fast. Ohio State’s College of Agriculture put together a task force on drought. Within hours of its formation, hundreds of answers to drought questions were flying electronically from campus to county Extension offices. Within the week, a satellite TV broadcast addressed key issues.

Work together. The drought brought questions for experts across Ohio State’s main campus, at the OARDC in Wooster and from other agencies. Citizens needed answers. Ohio State found the people who had them.

Get the word out. The hottest news story of the summer demanded lots of information and education. Ohio State kept the wires full of facts. We arranged press conferences, set up interviews for national media, provided TV footage and took the media to see the drought’s effects first hand. We even did some live broadcasts ourselves, giving Ohioans a chance to ask questions on four call-in TV programs.

Go one-on-one. Each situation was different. Sometimes people just wanted to talk. County Extension agents are where the people are. In a crisis they can give expert advice, one-on-one, and help cut the tension.

Give fast relief. “How can I save my lawn?” “What will my cattle eat?” “Will the corn ever grow?” “When will my husband feel less depressed?” Ohio State faculty answered these questions as best anyone could. Sometimes it was with information. Sometimes it was with a supply of donated hay or new source of water. Sometimes it was by being there to talk to.

Go with the flow. Everything else was secondary. Normal College of Agriculture programs took a different focus. Fairs, field days and meetings became times to show people exactly what drought was doing to their plants, animals and lifestyles. They were a chance to offer hope through practical suggestions, a chance to show what we did know and find out what we didn’t. The “teachable moment” was a matter of financial and emotional survival for Ohioans.

Be there. Hundreds of people gave of their time to help deal with the drought crisis. Extension employees across the state were on call practically 24 hours a day to answer questions and offer help. Researchers and other state employees worked round the clock to come up with possible solutions and help people deal with drought problems.

Flaunt whatever you have. With Extension agents in every county and experts at Ohio State and the OARDC, we had the delivery system to get answers fast. Satellite TV, computer networks and the good ole’ telephone were used to spread the word. And the news services from our Section of Information kept the media on top of the story from day one.

Don’t be caught napping. The drought’s effects aren’t over. Throughout the winter, Ohio State specialists have been analyzing the effects of last summer and looking ahead to another growing season. They’ve dealt with winter water supply and contamination questions for cities and towns. They’ve looked at how different home and farm plants stood the drought. And they’ve helped farmers make financial decisions with last summer in mind and 1989 in focus.
APPENDIX LVIII

DERBY HALL RENOVATION
KOTTMAN HALL - BIOTECHNOLOGY CENTER IMPROVEMENTS
STARLING LOVING HALL - PATHOLOGY PHOTO STUDIO AND
MICROSCOPY LAB

Adopted by the Board of Trustees June 2, 1989
(See page 1367)
DERBY HALL RENOVATION

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LABORATORY

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989
APPENDIX LVIII

RIGHTMIRE HALL RENOVATION, PHASE II

Adopted by the Board of Trustees June 2, 1989
(See page 1369)
RIGHTMIRE HALL RENOVATION
PHASE II

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989
APPENDIX LX

PARKING LOT RENOVATIONS

Adopted by the Board of Trustees June 2, 1989
(See page 1370)
EIGHTH AND NINTH AVENUE PARKING LOT RENOVATIONS PAVING AND STORM SEWERS

MEILING HALL

GRAVES HALL

NEWTON HALL

BELMONT AVENUE

9TH AVENUE

8TH AVENUE

9TH AVENUE PARKING RAMP

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989
APPENDIX LXI

LIMA CAMPUS - MASONRY REPAIRS AND ROOF REPLACEMENT
OARDC - FISHER AUDITORIUM ROOF REPLACEMENT
SCOTT HALL REMODELING - PHASE I
OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE

Adopted by the Board of Trustees June 2, 1989
(See page 1370)
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

LIMA CAMPUS - MASONRY REPAIRS AND ROOF REPLACEMENT

Tabulation of Bids

Bids received by The Ohio State University on April 11, 1989. Bids opened by Tamara Ball and tabulated by Jerry Pullins. Awards indicated with an "**".

### General Contract - Masonry

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>J &amp; P Paving</th>
<th>Walter Assoc.</th>
<th>Trisco Systems</th>
<th>Grunwell Carabro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$28,250.00</td>
<td>$17,872.00</td>
<td>$23,221.00</td>
<td>$23,891.00</td>
<td>$25,079.00</td>
</tr>
<tr>
<td>Total General Contract - Masonry</td>
<td>$28,250.00</td>
<td>$17,872.00</td>
<td>$23,221.00</td>
<td>$23,891.00</td>
<td>$25,079.00</td>
</tr>
</tbody>
</table>

### General Contract - Roof

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>New Tech</th>
<th>Argus Roofing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$127,000.00</td>
<td>$124,871.00</td>
<td>$137,460.00</td>
</tr>
<tr>
<td>Total General Contract - Roof</td>
<td>$127,000.00</td>
<td>$124,871.00</td>
<td>$137,460.00</td>
</tr>
</tbody>
</table>
LIMA CAMPUS
MASONRY REPAIRS AND ROOF REPLACEMENT

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989
Tabulation of Bids

Bids received by The Ohio State University on April 25, 1989. Bids opened by Tamara Bell and tabulated by John Frazier. Awards indicated with an "***".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Franklin Roof &amp; $</th>
<th>Northern Ohio Roofing</th>
<th>Hick's Roofing</th>
<th>Atlas Single Ply System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$64,100.00</td>
<td>$44,700.00</td>
<td>$47,520.00</td>
<td>$47,940.00</td>
<td>$48,349.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$64,100.00</td>
<td>$44,700.00</td>
<td>$47,520.00</td>
<td>$47,940.00</td>
<td>$48,349.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Simon Roofing</th>
<th>Falcon Roofing</th>
<th>Building Tech</th>
<th>Beidler-Taylor</th>
<th>Mid American</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$49,688.00</td>
<td>$49,886.00</td>
<td>$52,234.00</td>
<td>$52,897.00</td>
<td>$54,210.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$49,688.00</td>
<td>$49,886.00</td>
<td>$52,234.00</td>
<td>$52,897.00</td>
<td>$54,210.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Cheney Roofing</th>
<th>Edwards Roofing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$57,960.00</td>
<td>$59,800.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$57,960.00</td>
<td>$59,800.00</td>
</tr>
</tbody>
</table>
**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)**

**SCOTT HALL REMODELING - PHASE I**

Tabulation of Bids

Bids received by The Ohio State University on April 26, 1989. Bids opened by Tamara Bell and tabulated by Charles Hamilton. Awards indicated with an "**".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Good Home Maintenance</th>
<th>Bil Ross</th>
<th>Waller &amp; Lund</th>
<th>Functional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$128,500.00</td>
<td>$51,976.00</td>
<td>$54,460.00</td>
<td>$56,330.00</td>
<td>$56,745.00</td>
</tr>
<tr>
<td>Alt. G-1 (Rooms 283 &amp; 283A)</td>
<td>$31,400.00</td>
<td>$13,862.00</td>
<td>$19,750.00</td>
<td>$19,980.00</td>
<td>$19,225.00</td>
</tr>
<tr>
<td>Alt. G-2 (Rooms 285-289)</td>
<td>$20,250.00</td>
<td>$14,974.00</td>
<td>$18,970.00</td>
<td>$23,960.00</td>
<td>$24,755.00</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$180,150.00</strong></td>
<td><strong>$82,812.00</strong></td>
<td><strong>$93,180.00</strong></td>
<td><strong>$100,270.00</strong></td>
<td><strong>$100,725.00</strong></td>
</tr>
<tr>
<td>(Includes all alternates)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M &amp; P Constr</th>
<th>J &amp; W Bennett</th>
<th>Allen Ballew</th>
<th>CM Constr</th>
<th>Williamson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$74,200.00</td>
<td>$65,400.00</td>
<td>$83,934.00</td>
<td>$83,900.00</td>
</tr>
<tr>
<td>Alt. G-1 (Rooms 283 &amp; 283A)</td>
<td>$15,200.00</td>
<td>$21,400.00</td>
<td>$19,920.00</td>
<td>$19,439.00</td>
</tr>
<tr>
<td>Alt. G-2 (Rooms 285-289)</td>
<td>$17,000.00</td>
<td>$24,000.00</td>
<td>$18,071.00</td>
<td>$18,089.00</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$106,400.00</strong></td>
<td><strong>$110,800.00</strong></td>
<td><strong>$121,925.00</strong></td>
<td><strong>$128,628.00</strong></td>
</tr>
<tr>
<td>(Includes all alternates)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Scherl-Wilson**

| Base Bid | $89,900.00 |
| Alt. G-1 (Rooms 283 & 283A) | $22,300.00 |
| Alt. G-2 (Rooms 285-289)  | $22,300.00 |
| **Total General Contract** | **$134,400.00** |
| (Includes all alternates) |          |
**PLUMBING CONTRACT**

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate</th>
<th>Westland</th>
<th>Marco</th>
<th>Farber</th>
<th>J. A. Croson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$40,000.00</td>
<td>$32,000.00</td>
<td>$35,300.00</td>
<td>$34,000.00</td>
<td>$37,489.00</td>
</tr>
<tr>
<td>Alt. P-1 (Rooms 283 &amp; 283A)</td>
<td>$27,100.00</td>
<td>$12,500.00</td>
<td>$9,800.00</td>
<td>$11,900.00</td>
<td>$10,989.00</td>
</tr>
<tr>
<td><strong>Total Plumbing Contract (Includes all alternates)</strong></td>
<td><strong>$67,100.00</strong></td>
<td><strong>$44,500.00</strong></td>
<td><strong>$45,100.00</strong></td>
<td><strong>$45,900.00</strong></td>
<td><strong>$48,478.00</strong></td>
</tr>
</tbody>
</table>

**ELECTRIC CONTRACT**

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Estimate</th>
<th>Power National</th>
<th>Reco</th>
<th>Claggett</th>
<th>Brush &amp; Roman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$38,000.00</td>
<td>$27,274.00</td>
<td>$30,100.00</td>
<td>$30,220.00</td>
<td>$34,457.00</td>
</tr>
<tr>
<td>Alt. E-1 (Rooms 283 &amp; 283A)</td>
<td>$9,000.00</td>
<td>$4,882.00</td>
<td>$4,800.00</td>
<td>$5,763.00</td>
<td>$5,917.00</td>
</tr>
<tr>
<td>Alt. E-2 (Rooms 285-289)</td>
<td>$7,500.00</td>
<td>$7,111.00</td>
<td>$8,900.00</td>
<td>$8,625.00</td>
<td>$9,833.00</td>
</tr>
<tr>
<td><strong>Total Electric Contract (Includes all alternates)</strong></td>
<td><strong>$54,500.00</strong></td>
<td><strong>$39,267.00</strong></td>
<td><strong>$44,000.00</strong></td>
<td><strong>$44,508.00</strong></td>
<td><strong>$50,207.00</strong></td>
</tr>
</tbody>
</table>
Bids received by The Ohio State University on April 20, 1989. Bids opened by Tamara Bell and tabulated by Lynn Brooks. Awards indicated with an "**".

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$958,000.00</td>
<td>$579,530.00</td>
<td>$679,186.00</td>
<td>$771,754.50</td>
<td>$1,049,849.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$958,000.00</td>
<td>$579,530.00</td>
<td>$679,186.00</td>
<td>$771,754.50</td>
<td>$1,049,849.00</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G-1 (Concrete Color Coating)</td>
<td>$185,000.00</td>
<td>$85,386.00</td>
<td>$143,500.00</td>
<td>$59,770.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Detoll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,046,607.50</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$1,046,607.50</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
</tr>
<tr>
<td>G-1 (Concrete Color Coating)</td>
<td>$117,376.00</td>
</tr>
</tbody>
</table>
OHIO STADIUM REHABILITATION
OF EXTERIOR CONCRETE

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 2, 1989
APPENDIX LXII

LEASE OF LAND TO UNION TOWNSHIP
1.5 ACRES IN BROWN COUNTY, OHIO

Adopted by the Board of Trustees June 2, 1989
(See page 1374)
Lease of Land to Union Township
1.5 Acres in Brown County, Ohio

1.5 acre tract

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER
SOUTHERN BRANCH

No True Scale

Office of Business and Administration
June 2, 1989
APPENDIX LXIII

THE OHIO STATE UNIVERSITY 1989-90
PROVISIONAL CURRENT FUNDS BUDGET

Adopted by the Board of Trustees June 2, 1989
(See page 1378)
THE OHIO STATE UNIVERSITY
1989-90 PROVISIONAL CURRENT FUNDS BUDGET

All Funds Summary of Resources and Uses

<table>
<thead>
<tr>
<th>Budgeted Resources</th>
<th>Budgeted Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td><strong>Total Central Campus</strong></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$297,550,000</td>
</tr>
<tr>
<td>Student Fees</td>
<td></td>
</tr>
<tr>
<td>Instructional, General &amp; Tuition</td>
<td>153,650,000</td>
</tr>
<tr>
<td>Non-Credit Instruction</td>
<td>5,000,000</td>
</tr>
<tr>
<td><strong>Subtotal Student Fees</strong></td>
<td><strong>$158,650,000</strong></td>
</tr>
<tr>
<td>Other Resources</td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>109,800,000</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>15,050,000</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>13,140,000</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>60,660,000</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>10,050,000</td>
</tr>
<tr>
<td>Departmental Sales &amp; Services</td>
<td>28,770,000</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>85,950,000</td>
</tr>
<tr>
<td>Hospital Sales &amp; Services</td>
<td>222,270,000</td>
</tr>
<tr>
<td>Other Sources</td>
<td>14,090,000</td>
</tr>
<tr>
<td><strong>Subtotal Other Resources</strong></td>
<td><strong>$559,780,000</strong></td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td><strong>$1,015,980,000</strong></td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td><strong>Total Regional Campuses</strong></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>13,330,000</td>
</tr>
<tr>
<td>Student Fees</td>
<td>9,940,000</td>
</tr>
<tr>
<td>Other Resources</td>
<td>3,490,000</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td><strong>$26,760,000</strong></td>
</tr>
<tr>
<td>OARDC</td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>20,040,000</td>
</tr>
<tr>
<td>Federal</td>
<td>6,600,000</td>
</tr>
<tr>
<td>All Other</td>
<td>3,900,000</td>
</tr>
<tr>
<td><strong>Total OARDC</strong></td>
<td><strong>$30,540,000</strong></td>
</tr>
<tr>
<td><strong>Grand Total - Resources</strong></td>
<td><strong>$1,073,280,000</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Budgeted Uses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
</tr>
<tr>
<td>Educational and General Expenditures</td>
</tr>
<tr>
<td>Auxiliaries</td>
</tr>
<tr>
<td>Hospital</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
</tr>
<tr>
<td>Regional Campuses</td>
</tr>
<tr>
<td>ATI</td>
</tr>
<tr>
<td>Lima</td>
</tr>
<tr>
<td>Mansfield</td>
</tr>
<tr>
<td>Marion</td>
</tr>
<tr>
<td>Newark</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
</tr>
<tr>
<td>OARDC</td>
</tr>
<tr>
<td><strong>Grand Total - Uses</strong></td>
</tr>
</tbody>
</table>

UBF/June 2, 1989
This page is blank
This page is blank
INDEX TO OFFICERS AND EMPLOYEES

1988-89

Volume 2

A

Abramovitz, Fred M. ........................................ 845
Adelman, Melvin L. ......................................... 677
Adelson, Edward H. ........................................... 1325
Alberty, Elsie J. ........................................... 842
Aldemir, Tunc .................................................. 1327
Allaire, Francis R .................................................. 1321
Aman, Michael G. ............................................. 1338
Andereck, C. David ........................................... 1329
Anderson, Donald P ........................................... 650-660,677
Anderson, Robert B ........................................... 681
Andrews, Madeline J. ........................................... 1339
Apollo, Julio O. .................................................. 1336
Ash, Avner D .................................................... 1322,1329
Athens, William J ............................................. 1330
Au, Jessie Lai-Sim ............................................. 1337
Ayers, David H ................................................. 681

B

Baeslack, William A., III ................................... 1322,1327
Bailey, Lena C ................................................. 677
Balcer, Jack M ................................................... 1321
Barin, Kamran ................................................... 1330
Barnes, Teresa F ................................................... 682
Barone, John J .................................................... 660,822,1065,
1310,1311,1341
Barr, James J .................................................... 1330
Barr, Joseph T .................................................... 1337
Bartels, Robert L ............................................... 678
Bechtel, Stephen E ............................................... 1327
Beckman, Mary E .................................................. 1328
Bell, David C ..................................................... 684
Bender, Charles F ................................................. 1319
Bendixen, Leo E ................................................... 679
Benson, Hazel B .................................................... 1328
Berme, Neclp ....................................................... 1321
Berry, John W .................................................... 1062,1069,1097,1310
Beyrer, Mary K .................................................... 679
Billups, James O .................................................. 1322
Birchard, Stephen J .............................................. 1338
Blaisdell, John L ................................................. 679
Bleiholder, Roland F ............................................ 685
Block, Frank E ..................................................... 1321
Bloszis, George G ................................................... 679
Blum, Odette ...................................................... 1325
Bobulski, Rosalind J ............................................ 1336
Boesel, Carl ....................................................... 1336
Bolig, Rosemary .................................................. 1322
Bombach, Fred B .................................................. 683
Bonagura, John D .................................................. 1338
Bondybay, Vladimir E .......................................... 678
Bontrager, Roy R ............................................... 1330
Bovard, Frances E ............................................... 1088
Bowser, Shirley D ............................................. 658,667,822,
1062,1310,1340,1347
Boyd, Richard N .................................................. 1321
Brady, Michael T .................................................. 1330
Brand, Myles ....................................................... 650,1062,1339
Bratkovich, Stephen M ........................................ 1325
Brittin, Marie E ..................................................... 844
Brodky, Robert S .................................................. 1321
Brooks, Charles L ................................................ 1338
Brooks, Shirley A ................................................... 683
Brown, Charles G .................................................. 1330
Brown, Firman H., Jr ............................................ 1320
Brown, Joseph P ................................................... 681
Brown, Lee B ....................................................... 843
Brown, Robert T ................................................... 1336
Bruckner, Attila A ................................................... 842
Bruno, John P ...................................................... 1338
Brusadin, Rinaldo A ............................................. 1337
Bryan, Donald K ..................................................... 1330
Buesching, William ............................................. 1336
Burggraf, Odus R ................................................... 679
Burkman, Allan M .................................................. 1321
Burkman, Katherine H ........................................... 843
Butler, David M ..................................................... 1325
Butler, Lee M ....................................................... 1326
Butler, Reinhart F .................................................. 1321
C

Cadoura, Frederic J ............................................. 1320
Caldecott, Ross ................................................... 844
Call, Dickson H ..................................................... 683
Campagna, Anthony F .......................................... 1322
Campbell, Richard M ............................................. 681
Campbell, Roald Fay ............................................. 685
Cardozo-Freeman, Inez ........................................... 681,1339
Carter, Ellin E ...................................................... 1323
Casto, Deborah E ................................................. 672,831,1070,
1091,1094,1310,1314,1377,1393
Cavalari, Constantine J ........................................... 844
Cecchetti, Stephen G ............................................. 1338
Chaturvedi, Shive .................................................. 1327
Chen, Moon Shao-chuang, Jr .................................. 1326
Chew, Dennis J ..................................................... 1338
Chow, Daniel C. K .................................................. 1328
Clairmont, Albert C .............................................. 1336
Clark, William A ................................................... 1327
Cleaver, Betty F ..................................................... 1327
Clendenon, Nancy R ................................................ 681
Clovis, Albert L ..................................................... 1321
Cohen, Jeremy........................................ 1328
Coleman, Thomas H.................................. 684
Colombini, Victor D.................................. 681
Conaway, Christine Y................................ 1340
Connor, Laurence R.................................. 686
Conrad, Harry R........................................ 679
Copelan, Edward A...................................... 1330
Coulson, Frank T........................................ 1328
Coury, Daniel L......................................... 1336
Crawford, Robert S...................................... 681
Crepeau, George P....................................... 678
Crites, John L............................................. 678
Crockett, Alan R.......................................... 1323, 1325
Cuber, John F............................................. 845
Cuevas, Carlos E.......................................... 1086
Culicover, Peter W....................................... 842
Cunningham, Clarence J................................ 679
Cunningham, Luvern L................................... 679
Cunyngham, Jon S......................................... 679
Czarnik, Anthony W...................................... 1329

D

Dabreo, Ernest L......................................... 845
Dagefoerde, Richard O.................................. 682
Dallas-Swann, Susan.................................... 1322
Daluga, Daniel M........................................ 684
Danneberger, Tom........................................ 1324
Das, Amal K................................................ 684
Davidson, Ralph H........................................ 846
Davis, James F............................................. 1327
Davis, Laurel A............................................. 663, 1310
DeMaria, Thomas F....................................... 1330
DePhilip, Robert M........................................ 1330
Dillsaver, Steven C........................................ 1330
Donham, James C.......................................... 679
Donovan, Lorna F......................................... 845
Doody, Dennis M.......................................... 1330
Dorinsky, Paul M.......................................... 1330
 Dowdy, James M........................................... 678
Durham, Joseph R.......................................... 684
Durkin, L. Stanley......................................... 1329
Dynin, Alexander......................................... 678, 844, 1329

E

Eaton, Antoinette P...................................... 1088
Ebersole, Gary L.......................................... 1328
Edse, Ilseedore M........................................ 681
Edwards, Clive A.......................................... 1088
Erdy, Gary P................................................ 1336
Erickson, Walter M........................................ 682
Ersing, Walter F............................................ 679
Erven, Bernard L.......................................... 1321

F

Falkenthal, Scott......................................... 1325
Falkner, Neil.............................................. 1322
Feinberg, Stephen E...................................... 1326
Ferdi, Albert A............................................. 683
First, Richard J........................................... 1338
Fischer, Bernd............................................. 1328
Flowers, Patricia J........................................ 1325
Ford, Wilbur H............................................. 847
Foster, Wilfrid Raymond................................. 686
Fraley, R. Reed............................................ 677
Frea, James I............................................... 679
Fedin, Eric S................................................ 1338
Freeman, Evelyn B........................................ 1327
Fullerton, Mark D......................................... 1325

G

Gabel, Albert A............................................. 679
Gaimon, Cheryl M......................................... 1321
Galloway, Charles M...................................... 679
Gatherum, Gordon E...................................... 679
Gerlach, Ulrich............................................ 1329
Gherini, Scott T............................................ 684
Gilbert, E. Reid............................................ 843
Gillespie, Robert A....................................... 1325
Gong, Mery L............................................... 683
Graham, James L.......................................... 827
Grecula, Michaleen A..................................... 684
Greenwald, Lewis.......................................... 1322
Grever, Michael R......................................... 1329
Gribble, Charles E......................................... 1328
Griffing, J. Bruce.......................................... 679
Griffith, Robert F.......................................... 1339
Grossman, Lindsey K...................................... 1330
Grossman, Neil J............................................ 1336
Gunther, Richard P....................................... 1337
Gupta, Bhagwandas........................................ 1336
Guy, Jerry T................................................ 684
Guy, Julia F................................................ 1330
Gyuro, Steven J............................................. 683

H

Haghiiri, Faz................................................ 679
Hale, Karen N............................................... 1337
Hall, Allen W............................................... 678
Hall, Dennis W............................................. 1325
Hall, Nicholas G.......................................... 1326
Hamdy, Mohamed Y...................................... 679
Hansen, David O........................................... 1324
Harakas, Andrew P........................................ 664
Harned, Richard S......................................... 1325
Harnish, Margaret S....................................... 845
Harper, Brian D............................................. 1327
Harper, Donald D.......................................... 682
Harris, Donald............................................. 677
Harris, William K.......................................... 683
Hausman, Alan M.......................................... 677
Heck, Thomas F........................................... 1328
Henderson, William E.................................... 1324
Henry, James E............................................. 683
Herciline, Marylynn B.................................... 845
Heron, Timothy E......................................... 1321
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jossem, E. Leonard</td>
<td>1325</td>
</tr>
<tr>
<td>Kessler, John R.</td>
<td>682</td>
</tr>
<tr>
<td>Kenney, Martin F.</td>
<td>1324</td>
</tr>
<tr>
<td>Kramer, J. Lance</td>
<td>687</td>
</tr>
<tr>
<td>Kramer R. Ned</td>
<td>682</td>
</tr>
<tr>
<td>Kreler, Julius P.</td>
<td>680</td>
</tr>
<tr>
<td>Kriebel, Howard B.</td>
<td>680</td>
</tr>
<tr>
<td>Kroetz, Marion E.</td>
<td>680</td>
</tr>
<tr>
<td>Krol, Susan M.</td>
<td>1329</td>
</tr>
<tr>
<td>Kuhn, Albert J.</td>
<td>675</td>
</tr>
<tr>
<td>Kopriva, Seppo A.</td>
<td>1322</td>
</tr>
<tr>
<td>Lafontaine, Kenneth R.</td>
<td>1324</td>
</tr>
<tr>
<td>Lal, Rattan</td>
<td>1324</td>
</tr>
<tr>
<td>Latack, Janina C.</td>
<td>1323</td>
</tr>
<tr>
<td>Laymon, Ronald E.</td>
<td>1328</td>
</tr>
<tr>
<td>Lee, Young-Mee</td>
<td>684</td>
</tr>
<tr>
<td>Lichtblau, Steven H.</td>
<td>1336</td>
</tr>
<tr>
<td>Lingam, Rao</td>
<td>1336</td>
</tr>
<tr>
<td>Lipetz, Leo E.</td>
<td>680</td>
</tr>
<tr>
<td>Lloyd, M. Elizabeth</td>
<td>683</td>
</tr>
<tr>
<td>Loeb, Stephen F.</td>
<td>1320</td>
</tr>
<tr>
<td>Lomano, Jack M.</td>
<td>1330</td>
</tr>
<tr>
<td>Long, Ronald K.</td>
<td>680</td>
</tr>
<tr>
<td>Lucas, Joel</td>
<td>1336</td>
</tr>
<tr>
<td>Lynch, Joseph H.</td>
<td>1320</td>
</tr>
<tr>
<td>Mader, Sharon L.</td>
<td>1324</td>
</tr>
<tr>
<td>Magisos, Joel H.</td>
<td>680</td>
</tr>
<tr>
<td>Mahan, John D., Jr.</td>
<td>843</td>
</tr>
<tr>
<td>Main, Thomas S.</td>
<td>1330</td>
</tr>
<tr>
<td>Mand, Charles L.</td>
<td>680</td>
</tr>
<tr>
<td>Mangino, Michael E.</td>
<td>1324</td>
</tr>
<tr>
<td>Mangum, Stephen L.</td>
<td>1326</td>
</tr>
<tr>
<td>Marantz, Kenneth A.</td>
<td>843</td>
</tr>
<tr>
<td>Marcum, Howard J.</td>
<td>843</td>
</tr>
<tr>
<td>Mark, Nelson C.</td>
<td>1338</td>
</tr>
<tr>
<td>Masing-Delic, Irene Ingeborg</td>
<td>1328</td>
</tr>
<tr>
<td>Massey, Charles W., Jr.</td>
<td>1321</td>
</tr>
<tr>
<td>Matejic, Mateja</td>
<td>844</td>
</tr>
<tr>
<td>Mayhan, Robert J.</td>
<td>677</td>
</tr>
<tr>
<td>Mayo, Noel</td>
<td>677</td>
</tr>
<tr>
<td>McCune, Sylvia A.</td>
<td>1324</td>
</tr>
<tr>
<td>McCurdy, C. William</td>
<td>678</td>
</tr>
<tr>
<td>McNew, Frances A.</td>
<td>683</td>
</tr>
<tr>
<td>McNutt, Thomas J.</td>
<td>680</td>
</tr>
<tr>
<td>Meckstroth, Wilma K.</td>
<td>680</td>
</tr>
<tr>
<td>Meek, Devon M.</td>
<td>687</td>
</tr>
<tr>
<td>Meeks, James E.</td>
<td>1319</td>
</tr>
<tr>
<td>Micelli, Marcia P.</td>
<td>1323</td>
</tr>
<tr>
<td>Middendorf, Donald F.</td>
<td>1336</td>
</tr>
<tr>
<td>Miller, David N.</td>
<td>843</td>
</tr>
<tr>
<td>Miller, Fred</td>
<td>1347</td>
</tr>
<tr>
<td>Miller, Leslie H.</td>
<td>848</td>
</tr>
<tr>
<td>Miller, Randy R.</td>
<td>1336</td>
</tr>
<tr>
<td>Milligan, Glenn W.</td>
<td>1325</td>
</tr>
<tr>
<td>Miskell, David R.</td>
<td>682</td>
</tr>
<tr>
<td>Mityagin, Boris S.</td>
<td>1322</td>
</tr>
<tr>
<td>Miyagawa, Shigeru</td>
<td>843, 1323</td>
</tr>
</tbody>
</table>
Tolbert, Michael D .................................. 1338
Tracy, Robert J ...................................... 1326
Ylamouyiannis, Athena .............................. 859
Thornton, Royce B ................................... 1324
Thompson, Lonnie G ................................ 1329
Thomas, Melvin W ...................................... 845
Teaford, Hamilton J……659,661,664,668,694,
822,826,860,1066,
1068,1096,1310,1312
Thomas, Melvin W. ...................................... 845
Thompson, Lonnie G ..................................... 1329
Thornton, Royce B ..................................... 1324
Tierney, Robert J ......................................... 1326
Tolbert, Herman A. ...................................... 1336
Tracy, Stephen V ......................................... 1322
Trudeau, Thomas L ....................................... 1319
Strang, Joseph F., Jr. .................................. 683
Stratb, David ........................................... 1343
Stuessy, Tod F ........................................... 1320
Ulrich, Allen ............................................. 681
Uotila, Uhro A ............................................. 678
Vafai, Kambiz .......................................... 844
Valentine, Barry D ....................................... 681
Van Keuren, Robert W .................................. 681
Van Pelt, Susan P ....................................... 843
Vaughn, John W ......................................... 689
Vohra, Rakesh V ........................................ 678
Vredeveld, Harry ....................................... 843
Wade, Dale B ............................................. 1326
Wadwa, Janak ............................................ 1330
Wagner, James D ....................................... 684
Walters, Martha .......................................... 1336
Ward, Andrew D ........................................ 1324
Warner, Jane C .......................................... 1324
Watters, James I ....................................... 849
Wayson, William W ..................................... 681,844
Weary, Gifford .......................................... 1337
Weber, Paul A ........................................... 1329
Weinhold, Virginia B .................................. 1323
Welker, Mary Jo ......................................... 1330
Wenzel, Lida E .......................................... 683
Wexner, Leslie H ......................................... 1310
Wheeler, Pelton W ....................................... 1326
White, Bennie L .......................................... 682
Whiteus, Robert G ....................................... 678
Whitted, Vicki L .......................................... 1324
Wilkin, Jonathan K ....................................... 845
Wilkin, Olive C .......................................... 845
William, Charles G. S. .................................. 843,1323,1328
Williams, Lansing E .................................... 681
Williams, Richard L ..................................... 684
Wilson, Charles E ......................................... 1323
Wilson, Stephen L ........................................ 1320
Wittich, Thomas A ....................................... 844
Wolf, Milton A ............................................. 690,850,854,1310
Wongsam, Patricia ....................................... 684
Wood, Jackie D ........................................... 1320
Woody, McIver W ....................................... 844
Yedavalli, Rama K ....................................... 1327
Ylamouyiannis, Athena .................................. 859
Zakin, Jacques L ......................................... 1320
Zelenka, Ionia J .......................................... 683
Zirkle, Virginia I ......................................... 681
GENERAL INDEX
1988-1989 Minutes
Volume 2

A

Abbott Laboratories, Abbott Park, IL ................................................................. 874
Abt Associates, Inc., Cambridge, MA .............................................................. 872
Academic Affairs Committee Report ............................................................. 672, 831, 1070, 1314, 1393
Adria Laboratories, Columbus, OH ............................................................... 1107
Affirmative Action Report, Summary of Report on ..................................... 831, 1019
Agency for Instructional Technology, Bloomington, IN ............................. 1358
Agricultural Affairs Committee Report .......................................................... 694, 860, 1025, 1096
............................................................... 1173, 1347, 1397

Agriculture, Department of, Animal and Plant Health Inspection Service,
Fort Collins, CO .......................................................................................... 701
Agriculture, Department of, Economic Research Service, Washington, DC .... 1354
Agriculture, Department of, Forest Service, Broomall, PA ............................ 715
Agriculture, Department of, Forest Service, Burlington, VT ......................... 1104
Agriculture, Department of, Science and Education, Washington, DC ......... 716, 866, 885, 886
Agriculture, Department of, Soil Conservation Service, Columbus, OH ....... 871, 1354
Agway, Inc., Syracuse, NY ........................................................................... 705
Air Force, Department of the, Air Force Systems Command,
Bolling Air Force, DC ................................................................................. 701, 702, 868, 886, 1002-1104
Air Force, Department of the, Air Force Systems Command,
Griffiss Air Force, NY ................................................................................... 702
Air Force, Department of the, Air Force Systems Command,
Hanscom Air Force Base, MA ....................................................................... 870
Air Force, Department of the, Air Force Systems Command,
Wright-Patterson Air Force Base, OH .......................................................... 714, 716, 717, 867, 868, 870, 890

AITRC, Columbus, OH .................................................................................. 708
Alabama at Birmingham, University of, Birmingham, AL .......................... 721
Alcoa Defense Systems, Inc., San Diego, CA ................................................ 891, 1107
Alliance, Edward M., Scholarship Fund (The) ............................................... 723
All American Youth Horse Show Endowment Fund (The) .......................... 711
American Agricultural Economics Association, Ames, IA ........................... 876
American Astronomical Society, Washington, DC ........................................... 894, 1359
American Cancer Society, Atlanta, GA .......................................................... 706, 720
American Cancer Society, New York, NY ...................................................... 720
American Cancer Society, Ohio Division, Inc., Dublin, OH ......................... 707
American Cyanamid Company, Pearl River, NY .......................................... 1356
American Heart Association, Ohio Affiliate, Inc., Columbus, OH ................ 1357
American Otological Society, Inc., Minneapolis, MN ..................................... 1358
American Quarter Horse Association, Amarillo, TX ..................................... 706
American Trucking Association, Alexandria, VA ........................................... 894
Andrews (The), Maumee, OH ...................................................................... 705
Apple Computer, Inc., Cupertino, CA ........................................................... 891
Applied Information Technologies Research Center, Columbus, OH .......... 1357
Approval of Appointment ............................................................................ 1314
Arkansas, University of, Fayetteville, AR ...................................................... 875
Armco Research and Technology, Middletown, OH ...................................... 877
Army, Department of the, Army Corps of Engineers, Vicksburg, MS ......... 700, 869
Army, Department of the, Army Materiel Command, Fort Belvoir, VA ....... 1100
Army, Department of the, Army Materiel Command, Fort Monmouth, NJ .... 701
Army, Department of the, Army Materiel Command, Dover, NJ .................. 702
Army, Department of the, Army Materiel Command, Watervliet, NY .................................................... 1354
Army, Department of the, Army Research Office, Research Triangle Park, NC ................................. 715, 1101, 1103, 1351
Arnold, Virginia A., Scholarship Fund in Elementary Education (The) ........................................... 882
Ashbaugh, Joyce, Columbus, OH ........................................................................................................ 1131, 1230
Asset Allocation Adjustments to the Endowment Fund ...................................................................... 829
Astra Ab AB, Sodertalje, Sweden ........................................................................................................ 720, 873
AT&T Bell Laboratories, Columbus, OH ............................................................................................ 719
Audit Recommendations and Responses for 1987-88, Acceptance of the, Report of the... .......... 830

<table>
<thead>
<tr>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baggs, Arthur E., Memorial Fund</td>
</tr>
<tr>
<td>Battelle Memorial Institute, Columbus, OH</td>
</tr>
<tr>
<td>Battelle Memorial Institute, Richland, WA</td>
</tr>
<tr>
<td>Bausch and Lomb, Rochester, NY</td>
</tr>
<tr>
<td>Beatley, Janice Carson, Herbarium Fund (The)</td>
</tr>
<tr>
<td>Beautyview Court, 760, Columbus, OH</td>
</tr>
<tr>
<td>Bell Helicopter Textron, Inc., Fort Worth, TX</td>
</tr>
<tr>
<td>Benefits -- Modifications to the University's Group Benefits Program</td>
</tr>
<tr>
<td>Benua Foundation, Inc., Columbus, OH</td>
</tr>
<tr>
<td>Bio-Metric Systems, Inc., Eden Prairie, MN</td>
</tr>
<tr>
<td>Bioscience/Parks Hall Addition</td>
</tr>
<tr>
<td>Biotechnology Center Improvements, Kottman Hall</td>
</tr>
<tr>
<td>Biotechnology Center Rightmire Hall - Growth Chambers</td>
</tr>
<tr>
<td>Boeing Aerospace Company, Seattle, WA</td>
</tr>
<tr>
<td>Boeing Computer Services, Seattle, WA</td>
</tr>
<tr>
<td>Bolz Hall, Harold A</td>
</tr>
<tr>
<td>Borg-Warner Chemicals, Inc., Parkersburg, WV</td>
</tr>
<tr>
<td>Bozler Wing, Emil</td>
</tr>
<tr>
<td>Bridge and Street Improvements</td>
</tr>
<tr>
<td>Brookhaven National Laboratory, Upton, Long Island, NY</td>
</tr>
<tr>
<td>Brown County, Ohio - 1.5 Acres in</td>
</tr>
<tr>
<td>Brown Hall Roof Replacement</td>
</tr>
<tr>
<td>Buckeye Rural Electric Co-Operative, Inc</td>
</tr>
<tr>
<td>Budget - 1988-89 Current Funds, Quarterly Report</td>
</tr>
<tr>
<td>Budget Guidelines for 1989-91 Biennium</td>
</tr>
<tr>
<td>Busch, Derek H., Memorial Award Fund (The)</td>
</tr>
<tr>
<td>Butler County Children's Services Board, Hamilton, OH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. W. Construction, Groveport, OH</td>
</tr>
<tr>
<td>Calbiochem Corporation, La Jolla, CA</td>
</tr>
<tr>
<td>California Institute of Technology, Pasadena, CA</td>
</tr>
<tr>
<td>Calresco, Inc., Van Nuys, CA</td>
</tr>
<tr>
<td>Campbell Hall</td>
</tr>
<tr>
<td>Campus Energy Controls (HVAC Systems)</td>
</tr>
<tr>
<td>Campus Loop Road</td>
</tr>
<tr>
<td>Canadian Government, Quebec, Canada</td>
</tr>
<tr>
<td>Cancer Therapy and Research Foundation of South Texas, San Antonio, TX</td>
</tr>
<tr>
<td>Caremark Plus, San Bernadino, CA</td>
</tr>
<tr>
<td>Cargill, Inc., Minneapolis, MN</td>
</tr>
<tr>
<td>Central Benefits Mutual Insurance Company</td>
</tr>
<tr>
<td>Central Ohio Diabetes Association, Columbus, OH</td>
</tr>
<tr>
<td>Central State University, Wilberforce, OH</td>
</tr>
<tr>
<td>Chartwell Technologies, Inc., Columbus, OH</td>
</tr>
<tr>
<td>Chemol, Inc., Greensboro, NC</td>
</tr>
</tbody>
</table>
E

E. I. DuPont de Nemours and Company, Wilmington, DE .................................................. 1108
Early Retirement, Report On .............................................................................................. 663-665
Easements ......................................................................................................................... 1134-1136, 1233-1238
Edison, Thomas A., Program, Columbus, OH ................................................................. 877
Edison Material Technology Center, Kettering, OH ...................................................... 707,1360
Edison State Community College, Piqua, OH ................................................................. 894
Edison Welding Institute, Columbus, OH ......................................................................... 879,1111,1360
Edmonds Mechanical Contractors, Dayton, OH ............................................................. 907,1047
Edmund Niles Huyck Preserve, Inc., Rensselaerville, NY .............................................. 1357
Education, College of - Report on ................................................................................. 650-660
Education, Department of, Washington, DC .................................................................. 885
Education, Department of, Office of Educational Research and
Improvements, Washington, DC ....................................................................................... 717,885
Education, Department of, Office of Postsecondary Education, Washington, DC ........ 700,716,889,1351,1353
Egyptian Government, Washington, DC .......................................................................... 722
Election of Officers, Board of Trustees ............................................................................ 1062
Electric Power Research Institute, Palo Alto, CA .......................................................... 892,1112
Elevator Replacements ..................................................................................................... 1121,1207
Embassy of Egypt, Washington, DC ................................................................................ 879,1360
Emerson and Cuming Corp., Canton, MA ......................................................................... 1111
Energy, Department of, Argonne, IL ............................................................................... 701,713,866,867,1101,1352
Engineering Experiment Station ...................................................................................... 708,722,1360
Ennis Knupp & Associates ............................................................................................... 829
Environmental Protection Agency, Washington, DC ....................................................... 1100,1102
EPRI, Palo Alto, CA .......................................................................................................... 878,895
Equine Center ................................................................................................................... 1116,1191
Ethicon, Inc., Somerville, NJ ........................................................................................... 1356
Evans Lab Addition .......................................................................................................... 1119,1198
Expenditure Authorization 1989-90 ................................................................................ 1377,1421
Expression of Appreciation ............................................................................................... 1095,1339,1346

F

Farm Foundation, Oak Brook, IL ....................................................................................... 707
Farm Income Enhancement Endowed Chair in Agricultural
Policy, Trade and Marketing ............................................................................................. 1365
Farm Income Enhancement Program Fund (The) ................................................................ 1365
Farmitalia Carlo Erba S.p.A. Milan, Italy ........................................................................ 1107
Finnegan Construction, Shelby, OH .................................................................................. 909,1054
Fiscal Affairs Committee Report ....................................................................................... 696,862,1097,1348
Fisher Auditorium Roof Replacement, OARDC - ......................................................... 1371,1412
Florida Power and Light Company, Miami, FL ............................................................... 875
Florida Power Corporation, Crystal River, FL ................................................................ 1110
Food Facility Freezer Addition - Stores and Receiving Building .................................... 1117,1193
Ford Foundation, New York, NY ..................................................................................... 894
Franklin County Mental Retardation and Developmental Disabilities
Board, Columbus, OH ........................................................................................................ 1110
Franklin Fire Sprinkler Co., Columbus, OH ..................................................................... 1128,1130,1220
Franklin Roofing, Painesville, OH .................................................................................... 1371,1412
Freightliner Corporation, Charlotte, NC .......................................................................... 873
Friday, Dale T. (Distinguished Service Award) .................................................................. 835
Frush & Homan, Columbus, OH ....................................................................................... 1130,1224
G

Gallipolis Developmental Center, Gallipolis, OH.......................................................... 1109
GAR Foundation Scholarship Fund (The).................................................................. 710
Gas Research Institute, Chicago, IL........................................................................... 705
GE - Industry Services Engineering............................................................................ 695
Genentech, Inc., South San Francisco, CA................................................................ 892
General Electric, AEBG, Evendale, OH..................................................................... 879,1111
General Electric Company, Cincinnati, OH............................................................ 704,719,878,895,1360
General Electric Company, Louisville, KY ............................................................... 872
General Electric Company, Schenectady, NY.......................................................... 895
General Motors Corporation, Indianapolis, IN......................................................... 891,1107
General Motors Research Laboratories, Warren, MI............................................... 878
George, Noel F. (Distinguished Service Award)......................................................... 835
Georges, Robert E. (Distinguished Service Award)...................................................... 836
Georgia Department of Education, Atlanta, GA...................................................... 875
Golf Course Irrigation System.................................................................................... 903,1034
Good Home Maintenance, Columbus, OH............................................................... 1372,1414
Graduate School Update, Executive Summary......................................................... 1070,1163
Graham, James L., Honorable.................................................................................... 827
Greater Columbus Arts Council, Columbus, OH..................................................... 707
Gund, George, Foundation (The), Cleveland, OH.................................................... 875
Gutknecht Construction, Columbus, OH................................................................. 904,1039
Guy, J. A., Dublin, OH............................................................................................. 1129,1130,
1224,1372,1415

H

Hagerty Hall, Room 100............................................................................................... 1125,1217
Hamilton Hall, North Wing....................................................................................... 1085
Hamilton Hall Renovation......................................................................................... 1128-30,1220-22
Harpham, R.M., Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority
Scholarship Fund........................................................................................................ 710
Havener, William H., M.D., Chair in Ophthalmology Research Fund...................... 1366
Havens, John F. (University Hospitals Board)............................................................ 1316
Hayes, Woody and Anne, 1968 National Championship Athletic
Scholarship Fund (The)............................................................................................ 880
Health and Human Services, Department of,
Center for Disease Control, Atlanta, GA................................................................. 700,870,1350
Health and Human Services, Department of, Division of
Research Resources, Bethesda, MD..................................................................... 1350-1351,
1353-1354
Health and Human Services, Department of, Fogarty
International Center, Bethesda, MD...................................................................... 1104
Health and Human Services, Department of, National Cancer
Institute, Bethesda, MD......................................................................................... 1099,1350,1352
Health and Human Services, Department of, National Center
for Nursing Research, Bethesda, MD.................................................................... 1099,1100
Health and Human Services, Department of, National Heart,
Lung, and Blood Institute, Bethesda, MD............................................................. 1099,1101,1352
Health and Human Services, Department of, National Institute
for Occupational Safety and Health, Atlanta, GA.................................................. 1353
Health and Human Services, Department of, National Institute
of Allergy and Infectious Diseases, Bethesda, MD................................................. 1351
Health and Human Services, Department of, National Institute
of Child Health and Human Development, Bethesda, MD................................. 1101
Health and Human Services, Department of, National Institute
of General Medical Science, Bethesda, MD........................................................... 1099-1101,1350
IBM, Hopewell Junction, NY .......................................................... 878
ICRA, Inc., New York, NY ............................................................ 878
Indiana Department of Mental Health, Indianapolis, IN ................. 875
Indiana University, Bloomington, IN ........................................... 721,1358
Indonesian Government, Jakarta, Indonesia .................................. 720,874,876,894
Insley, Susan J. (University Hospitals Board) ................................ 1316
Institute of Gas Technology, Chicago, IL ................................. 1357
Intergraph Corporation, Reston, VA ............................................. 1108
Interior, Department of the, Geological Survey, Reston, VA ............. 700
International Development Cooperation Agency, Agency for
International Development, Washington, DC ............................. 866
International Programs Update, College of Agriculture ............. 861,1025
Investments Committee Report .............................................. 671,827,923,
933,1069,1145, 1149,1313,1379,1391
Iowa, University of, Iowa City, IA ............................................. 720
Iowa State University, Ames, IA .................................................. 720,893
J

J & P Paving, Columbus, OH............................................................. 1371,1410
Japan-United States Friendship Committee, Washington, DC............. 707
Jarrow Formulas, Inc., Los Angeles, CA........................................... 891
Jesselson Foundation, New York, NY................................................. 1109
Jones, Lawrence D., Scholarship Fund (The)...................................... 1364

K

Kansas, University of (The), Lawrence, KS....................................... 875
Kinaform Technology, Inc., Dayton, OH........................................... 1107
Kinney, Joseph P., Scholarship Fund ............................................... 899
Klisares, Pete A. (University Hospitals Board).................................... 1316
Kottman Hall - Biotechnology Center Improvements......................... 1367,1403
Kramer, John G. (University Hospitals Board)................................... 1316
Kuhn, Albert J., Honors Hall............................................................ 675

L

Lake Erie Marine Trades Association, Cleveland, OH ......................... 894
Land-Grant Universities in the 1990's and Beyond, Perspective on......... 822,913
Lazarus, Charles Y. (University Hospitals Board)................................. 1087
Leases..................................................................................... 1374,1419
Library Book Warehouse ................................................................. 1119,1199
Lima - Masonry Repairs and Roof Replacement................................. 1370,1410
Lima - Parking Lot Lighting Upgrade.............................................. 1124,1215
Lima - Roof and Masonry Repairs................................................... 1124,1215
Lockheed Missiles & Space Co., Inc., Sunnyvale, CA......................... 878
Logan, Tony................................................................................ 860
Lotman, Martha Miller, Memorial Scholarship Fund (The).................. 711,900
Lotman, Martha Miller, Scholarship Fund (The).................................. 900
Luebeck, Carolyn Engel, Memorial Endowment Fund (The)................ 1362

M

MacQuigg Laboratory...................................................................... 1125,1217
Makley, Torrence A. (The)............................................................... 1364
Makley, Torrence A., Research Professorship (The)............................ 1364
Mansfield - Founders Auditorium Renovation.................................... 1123,1214
Mansfield - Roadway and Parking Lot Repairs................................... 1124,1214
Mansfield - Utility Improvements.................................................... 1123,1214
March of Dimes Birth Defects Foundation, White Plains, NY.............. 875,876,893,1109
Marco Plumbing, Columbus, OH..................................................... 1129,1130,1224
Marion Laboratories, Inc., Kansas City, MO..................................... 873
Martin Construction, Columbus, OH............................................... 1372,1417
Martin Marietta Corporation, Oak Ridge, TN..................................... 872
Masonry Improvements................................................................... 1121,1204
McCormick, Marie Orton.................................................................. 1131,1229
McDonnell Douglas Corp., St. Louis, MO......................................... 878
McPherson Laboratory Roof Replacement........................................ 1125,1217
Mechanical Improvements................................................................ 1122,1209
Medical College of Ohio, Toledo, OH............................................. 706
Medical Director - Clinical Research Support Fund........................... 1113
Naming of Buildings............................................................................................................. 675,1084
Naming of Building Wing ................................................................................................. 1085
Naming of Roadway.......................................................................................................... 1086
National Aeronautics and Space Administration, Washington, DC............................. 700,703,716,1352
National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA........ 716,889,1099,1104
National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD............................................................. 703
National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.................................................. 717,869,1099
National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH........................................................................... 701-703,715,868-870,885,887,888,1102,1103,1353,1354
National Council of Soviet and East European Research, Washington, DC................. 1109
National Foundation of Arts and Humanities, National Endowment for the Humanities, Washington, DC........................................... 869
National Geographic Society, Washington, DC................................................................ 721,1358
National Science Foundation, Washington, DC.............................................................. 700-703,714-717,866-871,886-890,1100,1101-1105,1350-1354
National Security Council, Central Intelligence Agency, Washington, DC........................... 1103
National Training Fund for the Sheet Metal and Air-Conditioning Industry, Washington, DC................................................................. 720
Nature Conservancy, Columbus, OH................................................................................ 893
Navistar International Transportation Corporation, Columbus, OH.................................... 1108
Navy, Department of the, Bureau of Naval Personnel, Washington, DC.......................... 1353
Navy, Department of the, Naval Materiel Command, Bethesda, MD............................ 870
Navy, Department of the, Office of Naval Research, Arlington, VA................................ 700,701,714,716,867,868,887,888,1101,1103
NCR Corporation, Cambridge, OH.................................................................................... 1111
Nebraska, University of, Lincoln, NE.............................................................................. 706,721
Neil Avenue, 1501............................................................................................................. 1133,1231
OARDC - Fisher Auditorium Roof Replacement .................................................. 1371,1412
OARDC Support Facilities - Barn Replacement ........................................... 909,1053-1055
O'Donnell, Steve R. and Sarah E., Professorship in Philosophy (The) .......... 724
Oceanroutes, Inc., Sunnyvale, CA ................................................................. 705
Ohio - State of, Board of Regents, Columbus, OH ......................................... 717,1106
Ohio - State of, Department of Aging, Columbus, OH .................................... 890
Ohio - State of, Department of Commerce, Columbus, OH .......................... 703,717,718,871
Ohio - State of, Department of Education, Columbus, OH .......................... 717,718,871,891,1106,1355
Ohio - State of, Department of Health, Columbus, OH ................................. 1106
Ohio - State of, Department of Human Services, Columbus, OH .................. 871,1355,1356
Ohio - State of, Department of Natural Resources, Columbus, OH ............... 891,1105,1106,1355
Ohio - State of, Department of Rehabilitation Services Commission, Columbus, OH ................................................................. 871,900
Ohio - State of, Department of Transportation, Columbus, OH .................... 704
Ohio - State of, Environmental Protection Agency, Columbus, OH ............... 890,1355
Ohio - State of, Ohio Arts Council, Columbus, OH ......................................... 704,871,891
Ohio - State of, Ohio Humanities Council, Columbus, OH ............................ 871,872,1106,1355
Ohio Arts Council/Ohio Humanities Council Joint Program in the Arts and Humanities, Columbus, OH .................................................. 871
Ohio Coal Development Office, Columbus, OH .............................................. 877,1111
Ohio Cooperative Extension Service Organizational Review ......................... 1096,1173
Ohio Department of Transportation, Columbus, OH ...................................... 877,1359
Ohio Ground Water Consultants, Inc., Columbus, OH .................................. 874
Ohio River Basin Consortium, Columbus, OH ................................................ 1110
Ohio Stadium - Rehabilitation of Exterior Concrete ...................................... 902,1031,1372,1417
Ohio State University Hospitals Board Committee Report (The) .................. 661
Ohio State University Research Foundation Committee Report ..................... 600
Ohio State University Marion Campus Founders Scholarship Endowment Fund (The) ................................................................. 882
Ohio University, Athens, OH ........................................................................ 1110
Ohio State University Campaign (The) ......................................................... 1069,1145
Oklahoma Department of Education, Stillwater, OK ...................................... 894
Omega Biologicals, Inc., Woodland Hills, CA ................................................ 705
Optometry Class of 1953 Endowed Scholarship Fund (The) ............................ 712
Oscar, Robert E., Professorship in International Business Fund (The) ............. 883
Oscar, Robert E., Scholarship Fund in International Business (The) ............... 883

P Pacified Applied Research, Rancho Palos Verdes, CA .................................. 704
Paralyzed Veterans of America, Washington, DC .......................................... 893
Pardee, Elsa U., Foundation, Midland, MI ..................................................... 875
Parking Lot Renovation .................................................................................. 1370,1407
Pathology Photo Studio and Microscopy Lab, Stirling Loving Hall - ............... 1367,1404
PCB Elimination and Electrical System Upgrade ........................................... 695
Pennsylvania Avenue, 1478 .......................................................................... 1133,1231
People's Republic of China, Beijing, China .................................................. 706
<table>
<thead>
<tr>
<th>Institution/Department</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>PepsiCo, Inc., Valhalla, NY</td>
<td>719</td>
</tr>
<tr>
<td>Pet-Ag, Inc., Elgin, IL</td>
<td>719</td>
</tr>
<tr>
<td>Pew Memorial Trust, Philadelphia, PA</td>
<td>720</td>
</tr>
<tr>
<td>Perkin Elmer Corporation, Danbury, CT</td>
<td>1107,1356</td>
</tr>
<tr>
<td>Petroleum Research Fund (The), Washington, DC</td>
<td>893</td>
</tr>
<tr>
<td>Pfizer, Inc., Groton, CT</td>
<td>704,718,719,872, 873,1106,1107,1356</td>
</tr>
<tr>
<td>Philosophy, Department of, Faculty Support Fund</td>
<td>724</td>
</tr>
<tr>
<td>Pittsburgh, University of, Pittsburgh, PA</td>
<td>1110,1358</td>
</tr>
<tr>
<td>Policy on Patents and Copyrights</td>
<td>1074</td>
</tr>
<tr>
<td>Postle Hall Oral Biology Laboratory</td>
<td>1129,1130,1223-1225</td>
</tr>
<tr>
<td>Postle, Wendell D. and Helen R., Scholarship Fund (The)</td>
<td>1112</td>
</tr>
<tr>
<td>Power National, Lancaster, OH</td>
<td>1372,1415</td>
</tr>
<tr>
<td>Powers, Thomas E. and Jean D., Award Fund (The)</td>
<td>1362</td>
</tr>
<tr>
<td>Pressley Hall Remodeling - Phase I</td>
<td>906,1046</td>
</tr>
<tr>
<td>Principal Administrative Officials - Waiver</td>
<td>840</td>
</tr>
<tr>
<td>Prior, John A., Professorship Fund (The)</td>
<td>708</td>
</tr>
<tr>
<td>Project Systems Mechanical, Columbus, OH</td>
<td>904,1039</td>
</tr>
<tr>
<td>Promotion and Tenure Process - Report</td>
<td>1314,1393</td>
</tr>
<tr>
<td>Property, Purchase of Real</td>
<td>1133,1231</td>
</tr>
<tr>
<td>Property, Sale of Real</td>
<td>1131,1229</td>
</tr>
<tr>
<td>Purdue University, West Lafayette, IN</td>
<td>1108</td>
</tr>
</tbody>
</table>

**Q**

Reappointment of Joan N. Huber.................................................. 841
Redick, Ronald L. and Sharon Smith, Home Economics Graduate
  Fellowship Fund ................................................................. 1363
  Refuse Facility Upgrading.................................................. 1122,1208
  Reisch, Kenneth W., Excellence in Teaching Fund (The) .......... 1114
  Renaming of Department........................................................ 1070
  Research Corporation, Tucson, AZ ........................................ 721
  Research Foundation Report ................................................ 1065,1311
  Retirement, Early - Report on ............................................ 633-665
  Retirement & Insurance, Committee on - Report of the - Waiver 840
  Rho Pi Phi Scholarship Fund in Pharmacy (The) ..................... 1113
  Righter Company (The), Columbus, OH ................................... 908,1051
  Rightmire Hall Renovation, Phase II .................................... 1369,1405
  Riker Laboratories, Inc., St. Paul, MN ................................. 873
  Rinaldo Piaggio, Genova, Italy ........................................... 879
  Rochester, University of, (The) Rochester, NY ...................... 874
  Roering/Pfizer, New York, NY ................................................ 718
  Roof Replacements .............................................................. 1120,1203
  Rosenblum, Morris S., M.D. (University Hospitals Board) ....... 1316
  Ross, Ed, Construction, Westerville, OH ............................... 1129,1130,1223
  Ross Laboratories, Columbus, OH .......................................... 708,872,873
  Rotter, Julian B. (Honorary Degree) ................................. 840
  Royal Electric Construction, Columbus, OH ............................ 1129,1130,1221
  Ruffed Grouse Society (The) Coraopolis, PA ........................... 894
  Ruffner, Frederick G. (Distinguished Service Award) ............. 836
  Rules of the University Faculty ........................................... 673,831,1071
  Russ, Donald H., Scholarship Fund ........................................ 897

**S**

S & P Index .................................................................................... 829
ST. JOHN ARENA - ROOF REPLACEMENT............................................. 1130,1226
SANDIA CORPORATION, ALBUQUERQUE, NM............................... 891,1356
SANDOZ, INC., EAST HANOVER, NJ.............................................. 1356,1357
SAVKO, N. M., COLUMBUS, OH.................................................. 910,1057
SCANTEC CORPORATION, SANTE FE, NM.................................. 879
SCHOENBAUM SCHOLARS PROGRAM FUND................................. 901
SCHOTT, SUE ANN DOWELL, AGRICULTURAL FUND (THE)........... 881
SCIOTO ELECTRICAL CONTRACTORS, LANCASHIRE, OH............. 906,1043
SCOTT HALL REMODELING - PHASE I........................................ 902,1030,1371,1414
SEAGRANT SCHOOL PROJECT - SOUTH BASS AND GIBRALTAR ISLANDS............................................................. 1120,1201
SEVERINGHAUS, J. WALTER, SCHOLARSHIP FUND....................... 899
SHACKELFORD, DONALD B. (UNIVERSITY HOSPITALS BOARD)........... 1316
SHARP, LLOYD G. AND VIRGINIA, MEMORIAL SCHOLARSHIP FUND FOR CARROLL COUNTY (THE)......................... 880
SIEBEL CAPITAL MANAGEMENT................................................... 829
SIGMA KAPPA SORORITY FOUNDATION, NORTH LITTLE ROCK, AR................................................................. 721
SITE RENOVATION............................................................................. 1123,1212
SLOAN, STEVE................................................................................ 855,1342
SMITH & BRUCE INC., COLUMBUS, OH........................................... 908,1047,1048
SMITH, KLINE & FRENCH LABORATORIES, PHILADELPHIA, PA..... 892
SMITH, THOMAS B. (DISTINGUISHED SERVICE AWARD).... 837
SMOKELESS TOBACCO RESEARCH COUNCIL, INC., NEW YORK, NY................................................................. 1357
SOUTH-WESTERN CITY SCHOOLS, GROVE CITY, OH................. 876
SOUTHWORTH, MARY ANNE (DISTINGUISHED SERVICE AWARD)............................................................................. 837
SOUTHEASTERN CENTER FOR ELECTRICAL ENGINEERING
EDUCATION, ST. CLOUD, FL......................................................... 1108
SOUTHWEST RESEARCH INSTITUTE, SAN ANTONIO, TX........... 892
SPHINX ENDOWMENT FUND (THE)............................................... 884
STARGLE LOVING HALL - PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB.................................................... 1367,1404
STICKLEY, THOMAS, INTERNATIONAL GRADUATE SCHOLARSHIP FUND (THE)......................................................... 1114
STRAUB, DAVID................................................................................. 1343
STUART PHARMACEUTICALS, WILMINGTON, DE......................... 719
STUDENT AFFAIRS COMMITTEE REPORT.................................... 690,850,854,1091,1341
STUDENT HEALTH INSURANCE.................................................... 1090
STUDENT HEALTH INSURANCE COMMITTEE OF THE COUNCIL ON STUDENT AFFAIRS, EXECUTIVE COMMITTEE REPORT ON................................. 1165
STUDENT LETTERS TO THE TRUSTEES REGARDING TUITION INCREASE............................................................. 859,1023
STUDENT TRUSTEES........................................................................ 663
SULLIVANT HALL RENOVATION, PHASE II.................................. 1126,1217
SUMMIT, STUART A. (DISTINGUISHED SERVICE AWARD)........... 838
SYNTAX (USA), PALO ALTO, CA.................................................... 704

T

TELEDYNE CAE, TOLEDO, OH................................................................. 718
TEXAS, UNIVERSITY OF, GALVESTON, TX.................................... 720
TEXAS, UNIVERSITY OF, HOUSTON, TX....................................... 874
TEXAS A & M UNIVERSITY, COLLEGE STATION, TX................. 707
TEXNIKOI-ARTHUR C. AVRIL ENDOWMENT FUND...................... 896
THOMAS, SR., RITA C. AND OSCAR L., FUND (THE)................... 879
TOKYO INSTITUTE OF COMPUTATIONAL FLUID DYNAMICS, TOKYO, JAPAN............................................................. 1359
TOUCHE ROSS AUDITORS REPORT.............................................. 830,933
TRANSPORTATION, DEPARTMENT OF, NATIONAL HIGHWAY TRAFFIC SAFETY
ADMINISTRATION, EAST LIBERTY, OH......................................... 715,886,887,890,1104
TRITON BIOSCIENCES, INC., ALAMEDA, CA............................... 719
TRUSTCORP BANK, OHIO................................................................. 1133,1231
TRW, SAN DIEGO, CA............................................................ 872
TWAROG, LEON I. (DISTINGUISHED SERVICE AWARD).............. 838

xvi
Underwood, Suzanne Kolarik, Scholarship Fund (The) ................................................................. 709
Union Township, Board of Trustees of ......................................................................................... 1374, 1419
University Foundation Board Report .............................................................................................. 1068
University’s Group Benefits Program, Modification of the ........................................ 1149, 1313, 1379
Upjohn Company (The), Kalamazoo, MI ....................................................................................... 874
Upper Arlington City Schools, Upper Arlington, OH .................................................................... 707, 893

Vance, W. Chaney and Jane S., Family 4-H Fund (The) .................................................................. 723
Veterinary Anatomy, Department of ............................................................................................. 1070
Veterinary Anatomy and Cellular Biology, Department of .............................................................. 1070
Veterinary Hospital Sprinkler System for Large Animal Wards ................................................ 1122, 1210
Virginia Power, Glen Allen, VA ...................................................................................................... 893
Vorys, Arthur I. (University Hospitals Board) .................................................................................. 1316

Waiver ............................................................................................................................................. 840
Waiver of Paragraph (G) of Bylaw 3335-1-08 of the Administrative Code ..................................... 675
Waivers of Competitive Bidding Requirements .............................................................................. 1087, 1189
Washington, University of, Seattle, WA ....................................................................................... 721
Wayne State University, Detroit, MI ................................................................................................. 1359
Wells Nursing Scholarship Fund ....................................................................................................... 898
Welton, Hazel Edward, Endowment Fund (The) ........................................................................... 1112
Westland Mechanical, Columbus, OH ............................................................................................ 1372, 1415
Westvaco Corp., Covington, VA ........................................................................................................ 1111
Wetterberg, Harold, Foundation, Roseland, NJ .............................................................................. 706
Wetlands Research, Inc., Chicago, IL ............................................................................................... 1357
Whitney, D. Ransom, Endowed Fund in Statistics .......................................................................... 1362
Wildermuth, E. F., Foundation Professorship Fund in Optometry (The) ....................................... 722
Wiley, Bert C., M.D., Endowed Professorship in Physical Medicine and Rehabilitation (The) .... 1365
Wiley, Bert C., M.D., Professorship in Physical Medicine and Rehabilitation Fund (The) .......... 1365
Williams, Dorothy Jones, Memorial Scholarship Fund (The) ......................................................... 1115
Willima Cargile Contractor, Cincinnati, OH ................................................................................... 1129, 1130, 1221
Window Replacements .................................................................................................................. 1121, 1205
Wolfe, H.P., Chair in Accounting Fund (The) ................................................................................. 1361
Wooster Electric, Wooster, OH ......................................................................................................... 909, 1054
Wright-Patterson Air Force Base, OH ............................................................................................. 867, 868, 870, 890
Wyeth Laboratories, Philadelphia, PA ............................................................................................ 1356
X

Xoma Corporation, Berkeley, CA.................................................................................................... 1107

Y

Yassenoff Foundation, Columbus, OH............................................................................................ 876
Yiamouyiannis, Athena...................................................................................................... 692,859,1094

Z

Zollinger, Robert M., Lectureship Fund......................................................................................... 897
1989-1990

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Trustee Name</th>
<th>Term Beginning</th>
<th>Term Expiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>John W. Berry, Dayton</td>
<td>May 14, 1981</td>
<td>May 13, 1990</td>
</tr>
<tr>
<td>Hamilton J. Teaford, Columbus</td>
<td>May 14, 1983</td>
<td>May 13, 1992</td>
</tr>
<tr>
<td>John J. Barone, Toledo</td>
<td>May 14, 1984</td>
<td>May 13, 1993</td>
</tr>
<tr>
<td>Deborah E. Casto, Columbus</td>
<td>May 14, 1985</td>
<td>May 13, 1994</td>
</tr>
<tr>
<td>John W. Kessler, Columbus</td>
<td>May 14, 1986</td>
<td>May 13, 1995</td>
</tr>
<tr>
<td>Milton A. Wolf, Cleveland</td>
<td>May 14, 1987</td>
<td>May 13, 1996</td>
</tr>
<tr>
<td>Leslie H. Wexner, Columbus</td>
<td>May 14, 1988</td>
<td>May 13, 1997</td>
</tr>
<tr>
<td>Alex Shumate, Columbus</td>
<td>August 10, 1989</td>
<td>May 13, 1998</td>
</tr>
<tr>
<td>Theodore S. Celeste, Columbus</td>
<td>June 19, 1990</td>
<td>May 13, 1999</td>
</tr>
<tr>
<td>Laurel A. Davis, * Tipp City</td>
<td>February 6, 1989</td>
<td>May 13, 1990</td>
</tr>
</tbody>
</table>

* Student Trustee -- non voting.

OFFICERS

John W. Berry, Chairman
Shirley D. Bowser, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer
THE OHIO STATE UNIVERSITY

OFFICIAL PROCEEDINGS OF THE

ONE THOUSAND TWO HUNDRED AND FIFTY-SECOND MEETING

OF THE BOARD OF TRUSTEES

Columbus, Ohio, July 7, 1989

The Board of Trustees met at its regular monthly meeting on Friday, July 7, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * * * * * *

Minutes of the last meeting were approved.

* * * * * * *
The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on July 7, 1989, at 1:35 p.m. He requested the Secretary to call the roll.


**CAPITAL BUDGET REQUEST FOR 1990-1992**

Mr. Ihrig:

As we do every two years, we are prepared to present to the Board of Regents the University's request for capital appropriation for the three biennia 1991 through 1996. In this process the University looks at all its capital needs regardless of source of funds, whether it be state, gifts, earnings, or internal operating dollars. Then we decide the projects to request that are best suited for State support and those are related to instructional facilities and the related support facilities. Throughout this capital process the key is to define our priority needs both from a programmatic standpoint first, and then, secondly, to assure that the facilities that are provided to our faculty and staff meet today's state-of-the-art technology needs.

This process begins with reviewing with the deans and the vice presidents the capital list which is definitely listed in a priority order from the prior capital program. David Marsh, who is Associate Vice President of Finance and in charge of Campus Planning, will make the presentation today. His office works with the deans to develop their priorities and review whether there are any changes from the prior year. The process is very disciplined, because we must then go in and justify the priority list to the President and review any changes that happen in the priorities, of which there are few. But we do adjust to changing needs as well as any major repair considerations that are brought to our attention during the planning process.

While we develop this for three biennia, or six years, it is the first biennium -- the first two-year period -- that is the key. The costs are our best estimates based upon preliminary program data. We continue to look for better ways to handle construction at a more cost effective approach in developing these estimates. I would like to have David Marsh review with you a summary of what is in the first biennium of these requests. This will give you some idea of the type of items we are requesting of the State and then we will open it up for questions. David --

Mr. David C. Marsh:

Thank you, Mr. Ihrig. Mr. Chairman, members of the Board, it is my pleasure to give you a brief overview of the University's capital plan which must be forwarded to the Ohio Board of Regents as part of the Higher Education State Capital Funding Request for the 1991-92 biennium.

The Ohio State University's requests for capital improvement funds in the period 1991 through 1996 are based on a careful study of both program needs and the condition of the facilities housing these programs. While a large portion of this plan addresses outdated facilities, some additional space requirements have also been identified. Recognizing that funds are severely limited, the University continues to give priority to those programs that, with the assistance of the Board of Regents, are moving toward excellence but are restricted due to inadequate facilities.
July 7, 1989 meeting, Board of Trustees

CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

Mr. Marsh: (contd)

In this and subsequent Capital Plans, the primary emphasis is on the rehabilitation and modernization of existing buildings and utilities to ensure an appropriate fit between the academic mission of The Ohio State University and its facilities. Our major goals and strategies in this and future capital planning will focus on the following areas:

1. Providing the facilities considered necessary to support the University's prominent position as a quality institution of higher education that is recognized for its excellence in teaching, research and public service.

2. Remodeling or rehabilitation of those outdated facilities which do not meet today's current educational needs with respect to space requirements, equipment, and/or utilities when such work is cost effective.

3. Updating utility systems, roads, grounds and building environmental systems with emphasis on energy conservation, health, and safety and to prevent further deterioration of the physical plant.

4. Introducing projects required to support the University's prominent role in evolving programs such as biotechnology and computer and information science.

5. Realizing economies in operating costs and space utilization, along with improved services to students and faculty, through the consolidation of existing branch libraries and the consolidation of academic departments into one location.

While recognizing that it is impossible to renovate or replace all of the University's facilities within the six years of the Capital Plan, a commitment by the State for an increased level of funding is needed to properly plan the sequence of improvements. Many buildings are renovated while still occupied, due to the lack of other facilities for temporary relocation. However, some projects require that the activities affected be relocated due to the delicate nature of the instruction and research carried out in those facilities. The University's Capital Plan attempts to provide a sequence of projects that minimizes disruption and provides the lowest overall cost. Varying this sequence as a result of funding restrictions, not only delays construction, but increases total costs due to required alterations in project schedules and relocation plans.

Now I would like to provide a brief overview of some of the projects in our first biennium request. Let me introduce to you Mr. Jack Probasco, Facilities Planner in the Office of Campus Planning, who prepared much of the material in the campus plan. Jack will point out the projects on the map where the projects are located as I read you the descriptions of the projects.

If you will now turn to page six in the document that was placed before you earlier, this lists the projects in the three biennium that we are requesting funding for. The first five projects from basic renovations on the Columbus Campus through OARDC renovations consists of smaller projects to building components such as roofs, window replacement, chiller replacements, roads and grounds improvements, and
CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

Mr. Marsh: (contd)

etc. The descriptions are listed toward the end of the document. I won't go through those in detail, but if you are interested you can look at those and if there are questions later, I can speak to those.

Mr. Teaford:

Can I ask you one quickly though? This goes on to the Regents, they do look at those particular items, right?

Mr. Marsh:

Yes, sir, they do. Before we start I should ask Jack to orient us on the map. Hopefully, you can see the map OK, but -- why don't you orient us to general location and then you can point out each project as we go.

Mr. John F. Probasco:

This is Lane Avenue, High Street, Olentangy, and Rt. 315.

Mr. Marsh:

The Brown Hall Annex Replacement--Phase II -- this project is currently in design. It will provide an addition to the Math Building to consolidate the Department of Mathematics into two adjacent buildings and a Science and Engineering Library to permit the consolidation of the Engineering, Mathematics, Materials Sciences, Chemistry, and Physics libraries. The library consolidation will provide much needed space increases and improved services to the Sciences and Engineering. In addition, space will be vacated in several key buildings to address critical space needs in Physics, Chemistry, Electrical Engineering, and Computer and Information Sciences.

The Equine Center project will construct an addition to the Veterinary Hospital to provide space to accommodate a rapidly growing equine trauma unit for treating horses with various fractures and other conditions requiring emergency treatment and intensive care. Matching gift funds of $1.5 million have been made available. This project is currently under design.

President Jennings:

That is the Galbreath family gift in honor of John.

Mr. Marsh:

The third project is an addition to Dreese Lab and also associated with that a project for the remodeling of Caldwell Hall which is adjacent to that. These two projects will provide a central facility for the Department of Computer and Information Sciences and much needed space additions for Electrical Engineering. Computer and Information Sciences is currently housed in several buildings and is in need of additional space. This project will permit the consolidation of CIS and provide specialized facilities such as a vibration-free clean room. The Caldwell Lab
remodeling will convert space that will be vacated by the Engineering Library move upon the completion of the Brown Hall Annex Replacement project to offices and labs for CIS and Electrical Engineering.

The Mendenhall Laboratory Renovation includes the complete rehabilitation of this eighty-four year old building. Every component (mechanical systems, roof, windows, laboratory benches, etc.) within this building needs attention, therefore, the entire building will be vacated for nearly two years. This oval building currently houses the Department of Geology and Mineralogy and the Byrd Polar Research Center. Limited temporary facilities are being provided in Scott Hall on the West Campus to Geology during the Mendenhall renovation. The Byrd Center will remain in Scott Hall after the Mendenhall Rehabilitation is completed. In addition, part of the Department of Geology and Mineralogy is located in Watts and MacQuigg in the Engineering area of campus. They will move to Mendenhall thus freeing up space for Engineering.

The next project is the Smith Laboratory which houses Physics and Astronomy. This building is in need of complete renovation; however, since it is not possible to relocate these departments, it is proposed that a new Physics building be constructed on the Lord Hall site and then Smith Hall can be completely renovated while unoccupied. In the meantime, funds are being requested in the coming biennium to replace some of the mechanical systems to keep the building operational until such time that it can be rehabilitated.

The next project is the Botany & Zoology Building Addition and Renovation. This includes the complete renovation of this seventy-six year old building, a small addition to the north, and the complete renovation and/or replacement of the connecting greenhouses. The building systems are worn out and are not adequate to perform modern scientific research. Since the building cannot be vacated during renovation due to lack of suitable alternate space, this project will have to be phased. Phase I will rehabilitate the greenhouses, some associated research labs and begin the design for the remainder of the renovation.

Next is the McPherson Laboratory Renovation. This includes the complete rehabilitation of this sixty year old chemistry building. This building must be renovated in phases since it is not possible or practical to relocate the Chemistry Department to temporary facilities. An addition, Evans Lab (also a Chemistry Building) was funded last biennium and is currently in the planning stages. This project must be completed first so that some labs can be moved from McPherson to free up space for the first phase of the renovation. Also, the move of the Chemistry library from McPherson upon the completion of the new Science Engineering library (the Brown Hall Annex) project will help in providing swing space within McPherson. This is a very complex project requiring very careful planning. Proper sequencing is critical.

The last project I want to outline for you today is the Law Building Addition and Renovation. This project will provide additional space for the expansion of the Law Library as well as space for faculty offices and instructional areas. The project is currently under design using $1.5 million appropriated to the University in HB 870. The University will provide $7.7 million toward the construction and renovation of this
July 7, 1989 meeting, Board of Trustees

CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

Mr. Marsh: (contd)

facility with the remaining funds made available from fund raising activities.

With that I would simply like to stop and see if there are questions or concerns that we can address.

Mr. Ihrig:

This was to help give a flavor of the complexity and the types of projects that are in the list. The whole list is vitally important and have the real priorities of the University represented. As you can see, the next project is a continuation of the development of the Biotech Center in Rightmire Hall. And most of these projects are renovational work rather than new facilities. We are trying to upgrade very old buildings and make them into the state-of-the-art technology that is needed for today. We would be glad to try and respond to further questions that you might have regarding the Capital Plan. As I said, the discipline is there. We do have a priority list, and there has to be a very good reason, with matching funds in hand, to move a project up the list.

Mr. Teaford:

Which is what happened to the Law Building.

Mr. Ihrig:

That is exactly what happened to that.

Mr. Teaford:

My recollection is that the library got moved back. The President named that among our priorities the last time and we didn't get --

Mr. Ihrig:

The problem is that we never received it in the first biennium and we still haven't. We have hopes of receiving the total funding listed in the first biennium. So it has moved up, but it has not moved up far enough to reach the first biennium yet.

Mr. Teaford:

It was in last time.

President Jennings:

It was in our first biennial request. Our first biennial request was $156 million, of which only $100 million got funded. That is not even true. It wasn't even $100 million in that funding.

Mr. Teaford:

But somethings have moved ahead of it.
President Jennings:

Well, Law has and the Equine Center has and that is it. But remember, that the Science and Technology Library has skipped completely over instead of being incorporated into the Mathematics building. The Fine Arts Library is now fully funded with the Wexner Center so you have those two that have skipped over everything else. That is one of the reasons incidentally that the Math building -- the Brown Hall replacement -- that is why it is an additional $10 million. It originally was $15 million and $15 million was appropriated. We have essentially made the project a $25 million project to accommodate the library.

Mr. Ihrig:

Joel, it was in the second biennium of the request last time and it was down the list the second biennium --

Mr. Teaford:

Basically, it was third down.

Mr. Ihrig:

No. Well the problem is the phasing on all of these projects. It has moved up closer to the top of the second biennium request, but due to the phasing and the time that it would take to design, it just wouldn't be prudent to try and get all the money in the one biennium while we are designing it. So part of this is a timing issue.

President Jennings:

I might add that the space and the mechanical facilities on campus are the single most difficult issue we face not only now, but realistically for the next twenty or thirty years. It is changing technology, different faculty demands, and also the fact that our capital appropriations come to us without recognition of the age of our buildings. And we, by over ten years, are the oldest single campus in the State of Ohio in terms of average age. I think about forty-five years is our average building age. The next one is below thirty-five. And third, we continue to attempt, with the General Assembly and the Board of Regents, to incorporate depreciation into the annual operating budget. While our problem is that this budget you are about to approve, which the Fiscal Affairs Committee approved this morning, has no depreciation on capital budget. If we stop to think for a moment, the replacement value of our assets is somewhere on the order of $5 billion. An annual capital appropriation on the order of $250 million would not be excessive by any stretch of the imagination. We are talking about an annual capital appropriation of $50 million or one-fifth of what would be reasonable by any business standard. But we continue to try and incorporate a depreciation element into that budget. We haven't been successful, but we will keep trying on that particular issue. This is, in essence, a piece of this long-range planning. But realistically, it is going to be very difficult to satisfy all of the capital needs on this campus.
July 7, 1989 meeting, Board of Trustees

CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

Mr. Teaford:

But it strikes me as -- especially as I hear the presentation that the long-range planning is really less involved with the capital plan than one might think -- that the driving thing in the capital plan is which buildings are falling down, rather than where the buildings will go.

President Jennings:

Some of that is in there, but much of this is because a lot of this is set so many years before, that the long-range planning impacted in any one year is very marginal. Whereas the long term activity is there. The Cancer Center is out of the long-range planning, Wexner is out of the long-range planning, Brown Hall is out of the long-range planning. But, they got started so long ago. Because of the limits, it appears that those are not needed. A lot of money and a recking ball could do an awful lot of good on this campus right now.

Mrs. Bowser:

I notice that you have very few complete replacement buildings. When you look at a building like Mendenhall, I'm sure you weighed taking it down and completely renovating it.

Mr. Ihrig:

Yes, we do. Those are very carefully considered. Now, we will admit that with the buildings surrounding the Oval our first goal will be to preserve the architecture and do everything possible to preserve those. That is our first priority. But as we get away from the Oval, we continually -- and there are certain buildings -- the infamous one is the McPherson Sawtooth or the Sawtooth behind McPherson, where we didn't try to preserve that. And there is another one that has been a favorite of David's since he was an electrical engineer and that is the Communication Lab. I don't think he has any desire to help preserve that in his planning.

President Jennings:

That is a marvelous thing. Some of these aren't modern buildings, but boy they were built well.

Mr. Ihrig:

I think Townshend and Lazenbee are beautiful examples of renovating the insides of the facilities and they are just outstanding buildings rights now.

Mr. Jackson:

I think I would only want to echo what the President has already said. We are running a race to try to catch up and we are not catching up. I'm sitting on a committee that is taking a look at the problem on a state-wide basis. And one of the problems that exists, from my perspective at any rate, is that we are not really telling the Legislature what the needs are to protect the present investment. We are really submitting a proposal that gets through to the Legislature that is based on what the
July 7, 1989 meeting, Board of Trustees

CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)

Mr. Jackson: (contd)

dollars are that are available to support programs. That is fine, that is a decision which I understand needs to be made. But by the same token, I think it behooves us to really make the point of what the needs are versus what we are doing. That goes back to what the President said, and I think that is so crystal clear and this committee is beginning to talk about how we can get at that to make that presentation. Because if I was a Legislator, I would sit back and say "why didn't you tell me all of this, I didn't know it." Whether they will address the issue or not is a different subject. I feel lax from my standpoint that we are not telling them what the bare issue is.

Mr. Ihrig:

That completes our presentation unless there are other questions.

Mr. Berry:

Any other questions? Thank you, very much.

-0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

I would like to read a report from the Research Foundation grants and contracts for the month of May which are shown in the Board Agenda book. There are 121 awards listed which provide a gross income of $9.2 million.

Funding through eleven months of this fiscal year is 15 percent ahead of the same period last year. All funding sectors except for the "other Federal" category are ahead of last year.

Some highlights of awards are:

$196,000 from the State to Engineering and Medicine to develop a communication system for persons with speech and hearing impairments.

$60,000 from the National Science Foundation to the Department of Industrial and Systems Engineering for research on precision machining.

$42,000 from the National Science Foundation to the Department of Political Science to study the impact of organized lobbying efforts on Federal Judicial Nominations.

$32,000 from the National Science Foundation to Agriculture to study the geography of high technology industry in Japan.

This concludes my report. If there are any questions, Dr. Jack Hollander is available to answer any specific questions you may have. This is your last opportunity, I understand, to ask Jack.
July 7, 1989 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Berry:

You want to make it easy on his last time.

Mr. Barone:

At this time I would like to present an expression of appreciation for Jack M. Hollander. He has been very successful in getting these research projects. I feel honored to have worked with Jack over this period of time. Just to be associated with him, slightly, has enhanced my knowledge about what research is going on at this University.

EXPRESSION OF APPRECIATION

Resolution No. 90-1

WHEREAS Jack M. Hollander joined The Ohio State University in 1983 as Vice President in Research and Graduate Studies and;

WHEREAS the execution of his duties Jack Hollander has rendered exemplary leadership on behalf of The Ohio State University, and

WHEREAS Jack M. Hollander has dramatically improved the level and type of research being conducted at the University, and

WHEREAS Dr. Hollander has enriched the University through his intellect, resourcefulness, dedication and ingenuity and has brought credit to the area of research and graduate studies, and;

WHEREAS Dr. Hollander recently expressed his desire to retire from his appointment within the University;

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees here by expresses its gratitude to Dr. Jack M. Hollander for his support of The Ohio State University his contribution to our continuing growth and excellence, and convey its best wishes for his future success.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Berry:

Jack, we wish you well, and we are sorry to see you leave us. You certainly have our best wishes for the future and we will be thinking of you.

Dr. Hollander:

Thank you, very much. It has been a wonderful six years of growth and excellence here at the University, for me working with all of you and the entire Ohio State family. I think the one word I could use to describe it is joy. I had a very joyful time, and I will long remember it. And I will be back. Thank you.

--0--

10
The Hospitals Board's Executive Committee met on Thursday, June 29. We reviewed the current medical staff issues and endorsed the candidates for medical staff appointments and reappointments. There are over 1,000 names in our board book. Dr. Kathryn Clausen made her final report as Chief of Staff and the Board presented her with a framed resolution showing our gratitude for her leadership.

Mrs. Kate Bradford, the retired President of the Service Board presented her annual report of this group, which really in many ways adds the human element to the Hospitals treatments of its patients. She also got an award to commemorate her service. Dr. Kramer announced the committee appointments for the coming year.

Mr. Purcell reviewed the Hospitals financial statement for the month of May, which I might say reflected a loss of some $400,000 in terms of current operations. At this point, the Hospitals are showing a $2 million loss for the year, which is in excess of what should have been anticipated by the fact that we don't have the Cancer Hospital. Mr. Purcell also reported that 3 of 4 disputed issues with regard to Medicaid reimbursements have been conceded by the government resulting in a $675,000 adjustment for the Hospitals' fiscal 1985. Which demonstrates, again, one of the problems with the Hospitals funding. There was a subsequent discussion of how these pending settlements will be carried on the Hospitals financial reports.

Mr. Purcell also reported that as a result of negotiations with the State, the University Hospitals had achieved a four-year agreement with the Department of Corrections for the provision of health-care services which is far more favorable than the contract in a previous period.

Mr. Purcell reviewed the aging and source of University Hospitals receivables. There was considerable discussion of the billing and collection strategies which are now being adopted. I think it is now probable that we will bring the procedures at least into the early 20th century. I am happy to say that the receivables were reduced by some three days in the past month, so we are now down to 93 days. Regular progress reports are going to be continuing on this. As I told you last time, we do indeed have a plan now for the reduction of the days of receivables.

Mr. Jackson gave a status report on the various projects designed to facilitate the flow of traffic into and away from the Medical Center, and the problems in terms of getting people on and off of 315 are almost mind boggling.

We heard a report from the new Acting Development Director for the Hospitals, Bruce Pontious. And the Hospitals Board concluded with one more resolution in recognition of Dr. Ernie Johnson's thirty years of service as the Chairperson of the Department of Physical Medicine.

And the completes my report, Mr. Chairman.
INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and reviewed the proposed reaffirmation of three Board of Trustees resolutions:

AUTHORIZATION FOR DESIGNATED OFFICIALS TO BUY, SELL, ASSIGN AND TRANSFER SECURITIES, TO DEPOSIT OR WITHDRAW FUNDS FROM BANK ACCOUNTS, AND TO DESIGNATE DEPOSITORIES

Resolution No. 90-2

Synopsis: The Investments Committee recommended the reaffirmation of Board of Trustees Resolution No. 89-33 (September 2, 1988), which authorized designated officials to buy, sell, assign and transfer securities, to deposit or withdraw funds from bank accounts held in the name of The Ohio State University, and to designate depositories.

WHEREAS designated officials of the University buy, sell, assign and transfer stocks, bonds and other financial instruments owned by The Ohio State University; and

WHEREAS various financial institutions are designated as depositories for The Ohio State University; and

WHEREAS accounts at various financial institutions are opened and maintained in the name of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That the Vice President for Business and Administration and/or the Treasurer be authorized and empowered to buy, sell, assign and transfer any and all stocks, bonds, evidences of interest and/or indebtedness, rights and options to acquire or to sell the same, and all other securities corporate or otherwise, standing in the name of or belonging to The Ohio State University in any capacity; and

BE IT FURTHER RESOLVED, That the Vice President for Business and Administration and/or Treasurer be authorized and empowered to designate various financial institutions as depositories for The Ohio State University and open and maintain accounts at various financial institutions in the name of The Ohio State University; and

BE IT FURTHER RESOLVED, That the Vice President for Business and Administration and/or the Treasurer be authorized, on behalf of The Ohio State University and in its name, to sign checks, drafts, notes, bills of exchange, acceptances or other orders for the payment of money from said accounts; to endorse in writing or by stamp checks, notes, bills, certificates of deposit or other instruments owned or held by this University for deposit in said accounts or for collection or discount by said banks; to accept drafts, acceptances, and other instruments payable to said banks; to waive, demand, protest, file notice of protest, or dishonor any check, note, bill, draft or other instrument made, drawn or endorsed by the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
July 7, 1989 meeting, Board of Trustees

AUTHORIZATION FOR THE TREASURER OF THE UNIVERSITY TO SERVE AS TRUSTEE FOR UNITRUSTS AND ANNUITY TRUSTS

Resolution No. 90-3

Synopsis: The Investments Committee recommended the reaffirmation of Board of Trustees Resolution No. 89-35 (September 2, 1988), which authorized the Treasurer of The Ohio State University to serve as Trustee for Unitrusts and Annuity Trusts.

WHEREAS The Ohio State University Development Fund has requests from potential donors to the University or their designee to serve as Trustees of charitable remainder unitrusts or charitable remainder annuity trusts in order to minimize the expense of the trust by not having a bank serve as Trustee:

NOW THEREFORE

BE IT RESOLVED, That the Treasurer of The Ohio State University be and is hereby authorized to serve as Trustee for any charitable remainder unitrust and charitable remainder annuity trust in which The Ohio State University is the charitable remainder beneficiary; and to execute as Trustee and on behalf of the University, any and all documents approved by University legal counsel, which are required to complete such gifts.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

APPOINTMENT OF TRUSTEES FOR POOLED INCOME TRUST FUNDS I, II, III AND IV

Resolution No. 90-4

Synopsis: The Investments Committee recommended the reaffirmation of Board of Trustees Resolution No. 89-36 (September 2, 1988), which authorized the Vice President for Finance, the Treasurer and the Development Fund Director of Trusts and Estates of The Ohio State University to serve as Trustees for Pooled Income Funds I, II, III and IV.

WHEREAS the Board of Trustees by actions of December 4, 1970, September 10, 1976, September 7, 1979, and November 4, 1983, established Pooled Income Funds I, II, III and IV, respectively, as convenient means for University benefactors to contribute financial support to the University and at the same time retain income during their lifetime:

NOW THEREFORE

BE IT RESOLVED, That the Vice President for Finance, the Treasurer and the Development Fund Director of Trusts and Estates of The Ohio State University be and are hereby authorized and appointed to serve as Trustees for donors transferring property to the University's Pooled Income Funds I, II, III and IV; each to serve at the pleasure of the Board of Trustees in accordance with the terms of the instruments establishing Pooled Income Funds I, II, III and IV.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
July 7, 1989 meeting, Board of Trustees

APPOINTMENT OF INVESTMENT ADVISORS
AND REAPPOINTMENT OF INVESTMENT ADVISORS
Resolution No. 90-5

Synopsis: The Investments Committee recommended the Appointment of Investment Advisors and Reappointment of Investment Advisors.

WHEREAS it is the policy of The Ohio State University to utilize the services of external Investment Advisors to assist in the management of the University’s Endowment Fund; and

WHEREAS the Investments Committee of the Board of Trustees periodically reviews the results obtained by named external Investment Advisors and the amount of funds assigned to each of them; and

WHEREAS it is prudent investment policy to adjust the mix and amounts of money assigned to external Investment Advisors as economic conditions change; and

WHEREAS the Investments Committee has directed the Treasurer to maintain an initial amount of $10,000,000 of the Endowment Fund in long term United States Government or Agency securities under the University Investments Policy; and

WHEREAS the number of external Investment Advisors and the amount of funds assigned to them shall be determined by the Board of Trustees:

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Investments Committee of the Board of Trustees the following named external Investment Advisors shall be appointed and the following named external Investment Advisors shall be reappointed to counsel in the management of Endowment Fund investments totaling the initial amounts indicated:

<table>
<thead>
<tr>
<th>Advisor</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust Company</td>
<td>$20,000,000</td>
</tr>
<tr>
<td>Cambridge Financial Group, Inc.</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>The Chicago Corporation</td>
<td>$17,500,000</td>
</tr>
<tr>
<td>Duff and Phelps Investment Management Company</td>
<td>$10,000,000</td>
</tr>
<tr>
<td>W.R. Lazard and Company</td>
<td>$10,000,000</td>
</tr>
<tr>
<td>(Domestic Index Fund)</td>
<td></td>
</tr>
<tr>
<td>(New Appointment)</td>
<td></td>
</tr>
<tr>
<td>R. Meeder and Associates, Incorporated</td>
<td>$15,000,000</td>
</tr>
<tr>
<td>(Small Capitalization Index Fund)</td>
<td></td>
</tr>
<tr>
<td>(New Appointment)</td>
<td></td>
</tr>
<tr>
<td>Neuberger &amp; Berman Mutual Funds:</td>
<td></td>
</tr>
<tr>
<td>Guardian Fund</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Partners Fund</td>
<td>$1,000,000</td>
</tr>
</tbody>
</table>
APPOINTMENT OF INVESTMENT ADVISORS
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)

Nicholas-Applegate Capital Management
Siebel Capital Management, Incorporated
STW Fixed Income Management, Incorporated
Wells Fargo Investment Advisors
  (Standard and Poor 500 Index Fund)
  (New Appointment)
Wells Fargo Investment Advisors
  (International Equity Index Fund)
  (New Appointment)

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Berry, Teaford, Barone, and Kessler, and Mrs. Bowser and Ms. Casto, and a negative vote cast by Amb. Wolf.

Amb. Wolf:

Let me just add that the reasons for my negative vote were annunciated at the meeting of the Investments Committee and make my comments of that meeting a part of this record. "I am opposing this resolution on the basis that I am new to this committee and do not feel comfortable moving the money out of the money market when it might be better to wait a month or two."

--0--

Mr. Kessler:

We also reviewed and discussed a report on the returns on investment for Endowment Properties presented by Mr. Nichols. And this was followed by a review of the University's land uses and boundaries. That concludes my report.

(See Appendix I for complete text of The Ohio State University Endowment Summary, June 16, 1989, page 105.)
(See Appendix II for the chart on The Ohio State University Endowment Fund Property, as of June 20, 1989, page 117.)

--0--

ACADEMIC AFFAIRS COMMITTEE

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:
Renaming of College

Background

Faculty in the College of Home Economics propose to change the name of the college to the College of Human Ecology. This proposal is in keeping with the progress of forward looking research institutions throughout the nation. The proposed change should not be construed as a rejection of home economics as it was originally conceived, but as one which will preserve the conceptual base on which our field was developed while, over time, freeing us from the impediment of the stereotype associated with our present name. Moreover, the proposed name reflects the human ecological perspective that characterizes our research and instructional efforts.

The primary purpose of an administrative name is to accurately reflect the programs of a unit and project an image congruent with the goals and mission of the college and the university. A name change also implies a modification in activity, such as changes that have occurred within programs, and reflects an active rather than reactive orientation. A name change draws attention to a unit, and provides an opportunity to explain its function and highlight its unique contributions to teaching, research, and service. Finally, a name change demonstrates the ability to adapt to changing college, university, and societal roles, norms, and expectations.

RENAMING OF COLLEGE

Resolution No. 90-6

Synopsis: The Academic Affairs Committees recommended the approval of the renaming of the College of Home Economics to the College of Human Ecology.

WHEREAS the proposed name change of the College of Home Economics to the College of Human Ecology has been approved by the faculty of the College of Home Economics and by the Council on Academic Affairs; and

WHEREAS the proposed name, Human Ecology, is the name adopted by comparable units in leading institutions in the United States and Canada; and

WHEREAS the proposed name provides a conceptual framework for the mission and curriculum of the College; and

WHEREAS a name change will enhance the College's ability to recruit high quality faculty, to enroll a diverse student body, and to compete for external funds; and

WHEREAS no changes to the College's curriculum or mission are intended with the proposed name change; and

WHEREAS the University Senate approved the renaming of the College of Home Economics on June 3, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the College of Home Economics to the College of Human Ecology, effective immediately, is hereby approved.
July 7, 1989 meeting, Board of Trustees

RENAMING OF COLLEGE (contd)

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

ABOLITION/CREATION OF DEPARTMENT

Resolution No. 90-7

Synopsis: The Academic Affairs Committee recommended the approval of the abolition of the Department of Food Science and Nutrition and the creation of the new Department of Food Science and Technology.

WHEREAS the proposed abolition of the Department of Food Science and Nutrition, and the creation of the new Department of Food Science and Technology has been approved by faculty in the College of Agriculture and by the Council on Academic Affairs; and

WHEREAS the unification of the food programs is in keeping with a national trend in which virtually all other leading institutions have developed unified programs; and

WHEREAS a review of the Department of Food Science and Nutrition by the Cooperative State Research Service, U.S. Department of Agriculture, recommended that all food science and technology programs be brought together; and

WHEREAS the new Department will be able to attract more highly qualified graduate students and faculty, and to compete for external funds; and

WHEREAS the new Department will provide Ohio State with the faculty and resources necessary to become a leader nationwide in food programs; and

WHEREAS the University Senate approved this proposal on June 3, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to abolish the Department of Food Science and Nutrition and establish the Department of Food Science and Technology, effective October 1, 1989, is hereby approved.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

ABOLITION/CREATION OF DEPARTMENT

Resolution No. 90-8

Synopsis: The Academic Affairs Committee recommended the approval of the abolition of the Department of Romance Languages and Literatures and the creation of the Department of French and Italian and the creation of the Department of Spanish and Portuguese.
July 7, 1989 meeting, Board of Trustees

ABOLITION/CREATION OF DEPARTMENT (contd)

WHEREAS the faculty of the Department of Romance Languages and Literatures, the College of Humanities and the Council on Academic Affairs have approved the abolition of the Department of Romance Languages and Literatures and the creation of a Department of French and Italian and a Department of Spanish and Portuguese; and

WHEREAS the March 1988 report of the External Review Committee for the Department of Romance Languages and Literatures states that "the current administrative arrangement will not allow growth and development and that it is in the best interests of all concerned to divide into two departments: a Department of French and Italian and a Department of Spanish and Portuguese"; and

WHEREAS the proposed structure follows a national trend to separate the languages in response to the different directions in social, political, and cultural currents in each area, and also gives support to the development of new thrusts (e.g., Latin American Studies, Caribbean Studies); and

WHEREAS all faculty within the current Department of Romance Languages and Literatures have agreed to their new Tenure Initiating Unit (TIU); and

WHEREAS the University Senate approved this proposal on June 3, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to abolish the Department of Romance Languages and Literatures and establish the Department of French and Italian and establish the Department of Spanish and Portuguese, effective July 1, 1989, is hereby approved.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY
Resolution No. 90-9

Synopsis: The Academic Affairs Committee recommended the approval of the creation of a new rule 3335-9-16 and amendments to rules 3335-7-21, 3335-9-14, and 3335-9-18, and of the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on June 3, 1989, as follows:
3335-9-16 Administrative holds.

(A) With the approval of the vice provost for student affairs, an administrative hold may be placed on the records or accounts of any person who fails to comply in a reasonable period of time with an obligation imposed under university rules or who has an overdue debt or fine. An administrative hold will cause certain services to be withheld, including, but not limited to: obtaining current quarter grades, registering or enrolling, being certified as eligible to obtain a degree or certificate, receiving a transcript, borrowing books or equipment, or participating in discount plans available to faculty, staff, or alumni.

(B) The unit originating an administrative hold on the records or accounts of any person shall notify the person in writing of the obligation that is overdue by providing another itemized billing or list of actions requested, specifying when the administrative hold will become effective, and indicating the name and method of contacting an individual who can provide additional information.

(C) Any disputes concerning the legitimacy of a hold or its processing will be resolved by the university registrar.

AMENDED RULES

3335-7-21 Marks.

(A) through (H) unchanged.

(I) "P" - progress

This mark is used to indicate that the student has shown satisfactory progress in a series or sequence of courses where the mark is not recorded until the final quarter, semester, or session of the series or sequence is completed. Until such time as a final mark is recorded, the mark of "P" shall be given and the credit shall be counted as hours only, and shall not be considered in determining a student's point-hour ratio under rule 3335-7-26 of the Administrative Code. When a final mark is submitted by the instructor, all previous "P" marks shall assume and be recorded with the value of this final mark.

3335-9-14 Time of registration and payment of fees; penalties.

(A) Unchanged.

(B) Students whose fees are paid under contract with a third party will be held responsible for payment if the third party defaults or the contract is terminated.

(C) All fees, including penalties, must be paid on or before the fourteenth day after classes begin each quarter, semester, or session. The university reserves the right to refuse registration if fees are not paid by the date on which they are due. Individual exceptions to this provision may be made only upon the approval of the vice provost for student affairs or designee.

Balanced unchanged.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

3335-9-18 Return of fees.

(A) through (D) unchanged.

(E) In order to be eligible for the listed refund, the student's record and account must be free of any administrative hold (see rule 3335-9-16 of the Administrative Code). The student must present to the office of fees and deposits, within the time specified in paragraphs (B), (C), and (D) of this rule, written permission to withdraw, signed by the dean of the student's college and surrender the university-issued identification card.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

HONORARY DEGREES

Resolution No. 90-10

Synopsis: The Academic Affairs Committee recommended the approval for awarding two honorary degrees.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of honorary degrees as listed below:

Gertrude B. Elion Doctor of Science

Gertrude B. Elion, the recipient of the 1988 Nobel Prize in Physiology or Medicine shared with Dr. George Hitchings and Sir James Black, has been involved for over forty years in the investigation of purines and purine analogs as chemotherapeutic agents. Working in collaboration with Dr. Hitchings, she synthesized a large number of purines, including 6-mercaptopurine and thioguanine, and investigated their loci of action in micro-biological systems. 6-Mercaptopurine (6-MP) became the first purine antagonist to be useful in the treatment of acute lymphoblastic leukemia of children. Her 1954 paper which quantified the synergistic effects of purine antagonists with pyrimidine and folic acid antagonists has become a classic in the field.

Through studies of the metabolic fate of the thiopurines in vivo, Elion found explanations for some of the differences in their antitumor effectiveness in animals and man. These studies led her to the synthesis and study of azathioprine which she found to be a pro-drug for 6-MP in vivo. Azathioprine, because of its immunosuppressive properties, is now a mainstay in preventing rejection of kidney transplants.

Another product of her studies in purine metabolism was the finding that allopurinol could act as an effective xanthine oxidase inhibitor in vivo, resulting in a useful treatment for gout and other forms of hyperuricemia.
July 7, 1989 meeting, Board of Trustees

HONORARY DEGREES (contd)

Gertrude B. Elion (contd)

The most recent accomplishment of Elion and her group has been the discovery of the mechanism of action and selectivity of the antiviral agent, acyclovir, 9-(2-hydroxyethoxymethyl) guanine. Acyclovir was found to be non-toxic to normal cells but to be activated by a herpesvirus-specific thymidine kinase to a nucleotide, which after intracellular conversion to a triphosphate is a selective inhibitor of the viral DNA polymerase. She led the investigations on the absorption, distribution, metabolism and other biological properties of the drug necessary for its most efficient clinical use. Acyclovir has proven to be highly effective in the treatment of mucocutaneous herpes, genital herpes, herpes encephalitis and varicella zoster virus infections. Dr. Elion's group have also been involved in development of AZT, a life prolonging drug for victims of AIDS.

Dr. Elion has received numerous honors including honorary doctoral degrees from Brown University in 1969, George Washington University in 1969 and the University of Michigan in 1983. She currently is Scientist Emeritus from the Wellcome Research Laboratories, Research Triangle, North Carolina. However, she continues to be active in many national organizations, editorial boards and on the National Cancer Advisory Board for the National Cancer Institute.

Stanley E. Harrison

Doctor of Humane Letters

Mr. Stanley E. Harrison continues a career of extraordinary accomplishment in business and in civic and community affairs. His contributions to business are illustrated in his management genius in lifting a $4 million per year high technology consulting organization to an expenditure rate of over $250 million annually. His leadership in civic and community affairs has covered a wide spectrum of accomplishments exemplified by the advances in higher education in the Commonwealth of Virginia through programs conceived and championed by Mr. Harrison while a member and chairman of the Virginia Council of Higher Education (the Virginia model of Ohio's Board of Regents). The National Center for the Performing Arts operated by the Wolf Trap Foundation provided a sharp focus for Mr. Harrison's civic leadership. These, among numerous other personal accomplishments, cause Stanley Harrison to stand out as one of very few individuals whose career has had such a positive impact by so many widely diverse populations.

An Ohio State alumnus, Stanley E. Harrison is a native of Gallipolis, Ohio. Following a four-year tour with the U.S. Air Force, Mr. Harrison enrolled in electrical engineering at Ohio State and graduated with honors in 1958. He later earned a Masters Degree in Electrical Engineering from the University of New Mexico. During his professional career he has been associated with Battelle Memorial Institute, Sandia Laboratories, Martin-Marietta Corporation, and The BDM Corporation. At BDM, he advanced rapidly from research engineer, program manager, director of R&D, to director of operations, executive vice president, and then to president and chief operating officer. The BDM team, comprised of some 4000 persons, provides contract research and consulting services to government agencies, multinational industries and international clients.

While playing a major role in BDM's remarkable success, Mr. Harrison has served on the boards of numerous civic, arts and educational organizations as either an officer or as chair. These organizations include the Wolf Trap Foundation for the Performing Arts, Council of Higher Education for the Commonwealth of Virginia, Task Force on Science and Technology for Virginia, Committee for Tomorrow for Ohio State's College of Engineering, National Finance Council and Business Council of the Democratic National Committee, Crime Stoppers, Washington Dulles Task Force, and American Defense Preparedness Association.
HONORARY DEGREES (contd)

Stanley E. Harrison (contd)

He has also been a trustee of Western Maryland College, Rio Grande College, Shenandoah College and Conservatory of Music. While many citizens have dedicated much of their adult lives to community and charitable causes, seldom is a person so actively involved in such endeavors while they are building a company which will become one of the world's pacesetters in utilizing high technology and analytical and planning methods. But, Stanley Harrison gives not just his name but his organizational genius, creative thinking, and unselfish commitment to the institutions in which he believes. Clearly, Mr. Harrison is a person who has very broad interests, a compassion for people, an uncanny ability to work within our American institutions, and a sense of commitment for human progress. He has the talents and the willingness to invest himself in worthy causes and the dedication to stay with a project until his efforts have made a difference. Based on his technical and managerial achievements alone, Mr. Harrison is most deserving of an honorary degree. He is an achiever among professional people. When his unstinting services to civil and community organizations and to his fellow human beings are added, Mr. Harrison's career exemplifies the highest ideals of the University and has brought extraordinary distinction to himself and to his alma mater. Few graduates are more deserving of this high honor.

NOW THEREFORE

BE IT RESOLVED, That honorary degrees be awarded in accordance with the recommendation at a time convenient to the University and the recipients.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

DEGREES AND CERTIFICATES - SUMMER QUARTER COMMENCEMENT

Resolution No. 90-11

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Summer Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on August 31, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the June 2, 1989 meeting of the Board, including the following Promotion, Change in Title, Appointment of Chairpersons of Departments and Division and Director of School, Reappointment of Chairpersons and Directors of Academic Faculty, Departments, Divisions and Schools, Leaves of Absence Without Salary, Leave of Absence Without Salary--Change in Dates, Leave of Absence Without Salary--Continuation, Professional Improvement Leave, Professional Improvement Leaves--Cancellation, Professional Improvement Leaves--Change in Dates, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved, and the 1989-90 Medical Staff Appointments/Reappointments approved June 29, 1989, by the Hospitals Board be ratified.

Promotion

Name: RANDALL D. AYERS
Title: Men's Head Basketball Coach
Department: Athletics
Effective: July 3, 1989
Salary: $75,000.00
Present Position: Assistant Coach--Major, Basketball

Change in Title

Name: JAMES R. WARMBROD
Title: Acting Vice President and Dean
Office/College: Agricultural Administration/Agriculture
Effective: July 1, 1989
Salary: N/A
Present Position: Acting Associate Dean, Agricultural Administration and Professor, Department of Agricultural Education

Appointment of Chairpersons of Departments and Division and Director of School

July 1, 1989 through June 30, 1990
Division of Pharmaceutics and Pharmaceutical Chemistry Sylvan G. Frank*

July 1, 1989 through June 30, 1993
School of Health, Physical Education and Recreation Dorothy M. Zakrajsek

October 1, 1989 through September 30, 1990
French and Italian Charles G. Williams*
Spanish and Portuguese Josephat B. Kubayanda*

*Acting Chairperson/Director
PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Departments and Division and Director of School (contd)

October 1, 1989 through September 30, 1993

- Electrical Engineering: Daniel B. Hodge
- Family and Community Sociology: Mary G. MacVicar
- School: Krishnan Namboodiri

Reappointment of Chairpersons and Directors of Academic Faculty, Departments, Divisions, and Schools

July 1, 1989 through June 30, 1990

- Academic Faculty of Labor Education and Research Services: Susan L. Josephs*
- Family Medicine: Patrick J. Fahey*
- Horticulture: Steven M. Still*
- School of Natural Resources: John F. Disinger*
- Preventive Medicine: Donald Harris*

July 1, 1989 through June 30, 1992

- Division of Medicinal Chemistry and Pharmacognosy: Duane D. Miller

July 1, 1989 through June 30, 1993

- School of Architecture: Jerrold R. Voss
- Division of Mining Engineering: George R. St. Pierre

*Acting Chairperson/Director

Leaves of Absence Without Salary

AMY E. SHUMAN, Associate Professor, Department of English, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a Guggenheim Fellowship.

JOSEPH T. ZEIDAN, Assistant Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a National Endowment for the Humanities grant at the American Research Center in Cairo, Egypt.

Leave of Absence Without Salary--Change in Dates

LINDA A. MIZER, Assistant Professor, Department of Veterinary Anatomy and Cellular Biology, change dates from April 13, 1989 through June 14, 1989, to April 13, 1989 through June 4, 1989.
PERSONNEL ACTIONS (contd)

Leave of Absence Without Salary--Continuation

CAROL D. AUSTIN, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to continue as Director of the Ohio Department of Aging.

Professional Improvement Leave

DAVID L. BOGGS, Associate Professor, Department of Educational Studies, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

Professional Improvement Leaves--Cancellation

E. REID GILBERT, Associate Professor, Department of Theatre, effective Autumn Quarter 1989 and Winter Quarter 1990.

VIRGINIA E. RICHARDSON, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

Professional Improvement Leaves--Change in Dates


STEPHEN V. TRACY, Professor, Department of Classics, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

Promotions and Tenure

COLLEGE OF BIOLOGICAL SCIENCES

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Kathleen E. Kendrick, Microbiology, effective 10/1/89

Richard P. Swenson, Biochemistry, effective 10/1/89

COLLEGE OF BUSINESS

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Robert L. Heneman, Management & Human Resources, effective 10/1/89

COLLEGE OF DENTISTRY

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

William M. Johnston, Restorative and Prosthetic, effective 7/1/89
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions/Tenure (contd)

COLLEGE OF DENTISTRY (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE (contd)
John F. Sheridan, Oral Biology, effective 7/1/89

COLLEGE OF EDUCATION

PROMOTION TO PROFESSOR
Jack Naglieri, Educational Services, effective 10/1/89
TENURE
Ronald L. Jacobs, Educational Studies, effective 1/1/91

COLLEGE OF ENGINEERING

PROMOTION TO PROFESSOR
Manjula B. Waldron, Engineering Graphics, effective 10/1/89
PROMOTION TO ASSOCIATE PROFESSOR with TENURE
Fabian C. Hadipriono, Civil Engineering, effective 10/1/89
Stephen Yurkovich, Electrical Engineering, effective 10/1/89

UNIVERSITY LIBRARIES

PROMOTION TO ASSOCIATE PROFESSOR with TENURE
Dona Sue Straley, effective 7/1/89

COLLEGE OF MEDICINE

PROMOTION TO ASSOCIATE PROFESSOR with TENURE
Curtin G. Kelley, Ophthalmology, effective 7/1/89
Sally V. Rudmann, Allied Med, effective 10/1/89
TENURE
James Bova, Radiology, effective 1/15/91
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions/Tenure (contd)

COLLEGE OF MEDICINE
REGULAR CLINICAL FACULTY

PROMOTION TO ASSOCIATE PROFESSOR of CLINICAL RADIOLOGY

Lucy Freedy, effective 7/1/89

REAPPOINTMENTS

ASSISTANT PROFESSOR

Thomas Bullock, Preventive Medicine, effective 9/1/90

John V. Gauerman, Preventive Medicine, effective 1/1/90

COLLEGE OF VETERINARY MEDICINE

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Gay Y. Miller, Preventive Medicine, effective 7/1/89

Daniel D. Smeak, Clinical Sciences, effective 7/1/89

Maxey Lee Wellman, Pathobiology, effective 7/1/89

Medical Staff Appointments and Reappointments

Clinical Department
ANESTHESIOLOGY

ATTENDING

McDonald, John S., Chairman
Block, Frank E. Jr
Dahl, Mark R.
Goldman, Ernesto
Gupta, Bhagwandas
Howie, Michael Britchford
Jacoby, Jay
Kolattukudy, Marie M.
Lingam, Rao P.
Reilley, Thomas E.
Speas, Gaylynn J.
Swan, Joseph F.
Weaver, Joel M.
Wilkin, Olive C.

COURTESY

Andrews, Madeleine
Bodary, A. Kirk
Brooks, Juliana H.
Chandler, Eric M.
Hallim-Armanios, Mona Youssef
Lopez, Luis Amado
Zvara, David A.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
ANESTHESIOLOGY (contd)

LIMITED

Basile, Alfonso J.
Betts, Robert K.
Camerlengo, Leon Joseph
Cammock, Charles D.
Campbell, Deborah A.
Colavincenzo, Paul R.
Durante, Jose’ A.
Falkenhain, Sandra K.
Farina, Ralph A.
Fetko, Mark
Kim, Young Hee
Mandalfino, Dominic A.
Minehard, Isaac M.
Murphy, James L., Jr.
Okamura, Richard K.
Olsoy, Rolf D.
Park, Janice L.
Perdzock, David A.
Peterson, Suzanne F.
Rague, Louis Michael, Ill
Robinson-Philbeam, Pamela J.
Runyan, Thomas E.
Rypel, Gregory D.
Schantz, Roger M.
Schaut, David J.
Sellers, Jeffrey D.
Severyn, Steven A.
Smith, III, Townsend
Steinhauser, Raymond P.
Swofford, John B.
Waller, Daniel M.
Zvara, David A.

ATTENDING

Fahey, Patrick
Griggs, Roland C.
Guthrie, Robert M.
Martin, Ralph A.
Sickles, Trent
Williams, P. Tennyson

COURTESY

Adrion, William
Bohlen, John
Burrer, Gail W.
Dils, Lawrence
Gahman, Frank
Geron, Michael

FAMILY MEDICINE
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
FAMILY MEDICINE (contd)

LIMITED

Anderson, F. James
Bayne, Bonnie J.
Beggin, Bryan E.
Cock, Joshua C.
Garcia, Michael J.
Grilley, Susan E.
Kim, Doug Shi
Koike, Vincent M.
Lindstrom, Mark
Smith, Roger S.
Swain, Randall Alan
Timson, Katrina M.
Torres, Alex E.
Washington, Wm. L.
Weiss, Michael L.
Woskobnick, Robert C.

COURTESY (contd)

Hedges, Charles R.
Herwig, Theodor F.
Lutes, Richard A.
Moore, John W.

INTERNAL MEDICINE

DIVISION - ALLERGY

ATTENDING

Anderson, Clark L.
McNeil, Donald L.

COURTESY

Bagenstose, Abner H., III
Bronstein, Herbert
Coleman, Thomas H.
Cunningham, Charles
Hughes, William
Wetterauer, Damon E.

DIVISION OF BONE MARROW TRANSPLANTATION

ATTENDING

Tutschka, Peter J., Director
Copeland, Edward A.
Kapoor, Neena
Medical Staff Appointments and Reappointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION - CARDIOLOGY

ATTENDING
Leier, Carl V., Director
Bacon, James P.
Barker, Raymond E.
Binkley, Philip F.
Boudoulas, Harisios
Bush, Charles Arthur
Cody, Robert J.
Fontana, Mary E.
Hirsch, Steven C.
Kolibash, Albert J., Jr.
Lewis, Richard P.
Love, Charles J.
Magorien, Raymond D.
Ryan, James M.
Schaal, Stephen F.
Stang, John M.
Starling, Randall C.
Wooley, Charles F.
Van Fossen, Douglas B.

LIMITED
Arn, Anthony
Auseon, John Charles
Davis, William R.
Dembach, Frances D.
Farhat, Assem Z.
Good, Arnold P.
Groden, David L.
Haas, Garrie J.
Heiselman, Mary A.
Hirsch, Steven C.
Nichols, Allan J.
Tice, Frank D., IV

DIVISION - COMMUNITY INTERNAL MEDICINE

ATTENDING COURTESY
Lutmer, William J.
Grecula, Michaleen A.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION OF DERMATOLOGY

HONORARY

Carr, Richard D.

ATTENDING

Davis, Loretta S.
Wilkin, Jonathan K.
Wolverton, Stephen E.
Pellegrini, Arthur E.

COURTESY

DeMaria, Jess Joseph
Zuckerman, Jordan Spence

DIVISION OF ENDOCRINOLOGY AND METABOLISM

ATTENDING

George, Jack M., Director
Cataland, Samuel
Falko, James M.
Jackson, Rebecca D.
Malarkey, William B.
O'Dorisio, Thomas M.
Mazzaferri, Ernest L.
Osei, Kwame
Rao, M. Bhaskar
Tzagournis, Manuel

COURTESY

Bixel, Janet K.
Goldberg, Robert F.
Katz, Charles M.
Krupko, John B.
Larrimer, John N.
Metzger, Paul S.
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reapointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION OF ENDOCRINOLOGY AND METABOLISM (contd)

LIMITED
Cottrell, Daryl A.
De Los Santos, Edith T.

DIVISION - GASTROENTEROLOGY

HONORARY
Beman, Floyd M.

ATTENDING COURTESY
Thomas, Fred B., Director
Caldwell, James H.
Fromkes, John J.
Kirkpatrick, Robert B.
Mekhjian, Hagop S.

LIMITED
Gillespie, James R.
Miller, Scott M.
Thomas, David B.

DIVISION - GENERAL MEDICINE

ATTENDING COURTESY
Bowen, Juan M., Director
Binkley, Wm. F.
Birskovich, Lorraine M.
Friedman, Barry M
Gaeuman, John V.
Hanyak, John P.
Keller, Martin D.
Kreger, Cynthia G.
Kunin, Calvin M.
Lefkovitz, Jeffrey A.
Marks, Jack
Martin, Daniel R.
Murphy, Robert J.
Pintz, Evelyn E.

Bansal, Girraj K.
Boudoulas, Olga
Davies, A. Robert
Delaveris, Steven L.
Dixon, Gerald F.
Keith, Paul F.
Lichtblau, Steven H.
Lauerman, Leslie R.
Murphy, Link R.
Tallo, Diane
Guy, Jerry T.
Edgin, Richard A.
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION - GENERAL MEDICINE (contd)

ATTENDING (contd)

Swindells, Susan
Walzak, Doris E.
Washington, Sharon E.

LIMITED

Ahuja, Anita
Al-Awwa, Abdulkader
Altes, John C.
Andersen, Katherine A.
Applegate, Mary S.
Atkinson, Lisa A.
Blakeley, Dean D.
Boyd, William M.
Boyer, Stephen H.
Briss, Peter A.
Curren, Camilla
Dernbach, Frances D.
Fahig, Stephen A.
Falkenhain, Michael E.
Frakes, Rebecca L.
Gandhi, Adithya K.
Gbur, Charles J.
Goderwis, Douglas A.
Guertin, Michael G.
Hagaman, Martha H.
Hagaman, David D.
Harris, Randall J.
Hernandez, Raul A.
Hoffman, Stephen P.
Israbian, Vatche A.
Kafity, Alfred A.
Katz, Michael S.
Kim, John Sang Ho
Klejka, James P.
Koval, Ann R.
Ladson-Wofford, Stephanie
Larry, John A.
Lefkovitz, Jeffrey A.
Mastronarde, John G.
Moodispaw, Paul F.
Morris, Vicki M.
Newlin, Philip L.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION - GENERAL MEDICINE (contd)

LIMITED (contd)

Nicolacakis, Kathryn
Ogrodowski, James L.
O'Neill, Beverly V.
Penza, Sam L.
Peters, Mark T.
Pope-Harman, Amy L.
Pue, Charles A.
Putthoff, Dara E.
Randolph, Teigha J.
Ridge, Jennifer M.
Riley, Deborah K. (Smithberger)
Rome, Michael P.
Ronan, Patrick G.
Rossana, Cindylou F.
Rumanick, Mark S.
Rupert, Robert D.
Samoil, Daniela
Schuster, Andreas W.
Sedmak, Primrose A.
Shade, William A.
Sifford-Wilson, Sharon M.
Sinnathamby, Sukirtharan
Smith, Carolyn M.
Smyke, Norman A.
Sobeci, Luette M.
Spearman, Paul W.
Spech, Richard A.
Stechschulte, Elizabeth
Stechschulte, Mark
Stevens, Harold C.
Thompson, Craig R.
Trout, Ann M.
Walz, Elizabeth T.
Wachendorf, Judith M.
Wilmer, William A.

DIVISION - HEMATOLOGY AND ONCOLOGY

ATTENDING COURTESY

Balcerzak, Stanley P., Director Gams, Richard A.
Avalos, Belinda R.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION - HEMATOLOGY AND ONCOLOGY (contd)

ATTENDING (contd)

Behrens, Brent C.
Bouroncle, Bertha A.
Kraut, Eric Harvey
Metz, Earl Nelson
Rinehart, John J.
Sagone, Arthur L., Jr.
Triozzi, Pierre L.

LIMITED

Eicher, Donald M.
Thornton, Donald E.

DIVISION - INFECTIOUS DISEASES

ATTENDING

Fass, Robert J., Director
Fox, Barry
Koletar, Susan L.
Maher, William E.
Mertz, David C.
Para, Michael F.
Perkins, Robert L.
Plouffe, Joseph F.

LIMITED

Gianakopoulos, George J.
Herchline, Thomas E.
Kobe, Margaret Frieda

INTERNAL MEDICINE - PEDIATRICS

LIMITED

Curren, Camilla
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
INTERNAL MEDICINE (contd)

DIVISION - PULMONARY DISEASES

HONORARY
Donnerberg, Roy L.

ATTENDING
Allen James Norman
Davis, William B.
Dorinsky, Paul M.
Kindt, Gary C.
Weiland, Jeffrey E.

COURTESY
Inglis, Wm. D.
Kaufman, Jeffrey L.
O'Brien, Richard

LIMITED
Diaz, Philip T.
St. John, Roy C.

DIVISION - RENAL DISEASES

ATTENDING
Hebert, Lee, Director
Bay, William H.
Cosio, Fernando G.
MacLaurin, John P.
Middendorf, Donald F.
Nahman, Morris, Jr.

COURTESY
Lewis, James W.
Mishkind, Michael

LIMITED
Eng, Eudora
Myers, Douglas P.
Ricker, Denise M.

DIVISION - RHEUMATOLOGY-IMMUNOLOGY

ATTENDING
Whisler, Ronald L., Director
Anderson, Clark Lawrence
Hudson, Norman P.
Kantor, Seth M.
Mazanec, Daniel J.

COURTESY
Cunningham, Charles
Hedrick, Sterling W.
Hughes, William
Messick, Richard
Philip, Vol K.
Thomas, Marvin H.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
NEUROLOGY

ATTENDING

Paulson, George W., Chairman
Freidenberg, Donald
Kissel, John T.
Mendell, Jerry R.
Pakalnis, Ann
Rommohan, Kottil Walappil
Sahenk, Zarife
Slivka, Andrew P.

LIMITED

Fahey, Brian
Myer, Elizabeth L.
Phillips, Barbara L.

OBSTETRICS AND GYNECOLOGY

ATTENDING

Gabbe, Steven G., Chairman
Bell, David C.
Bryan, Donald K.
Copeland, Christopher M.
Copeland, Larry J.
Copeland, Wm. E. Jr.
Copeland, Wm. Edgar
Dodds, William G.
Friedman, Chad I.
Huneke, Allen L.
Iams, Jay D.
Kim, Moon H.
Landon, Mark B.
O' Shaughnessey, Richard
Rigsby, Wm. C.
Schmidt, Grant E.
Teteris, Nicholas J.
Villalon, Roberto R.
Williams, Steven R.
Zartman, Edwin R.
Zuspan, Frederick P.

COURTESY

Borland, Duncan B.
Parker, James W.
Wise, Gary R.
Baird, James N.
Barrows, Holly J.
Beattie, James F.
Bell, Jeffrey G.
Blose, Ralph D.
Bradenberry, Keith R.
Brannon, Robert M.
DeVoe, Keith Jr.
DeVoe, Stephen J.
Eckhardt, Alfred J.
Enrile, Leopoldo L.
Hackett, Kevin J.
Hanninger, Glen J.
Harnish, Margaret S.
Hurst, Ann M.
Hixon, Carolyn S.
Kelch, Harold E.
Lomano, Jack N.
Merryman, Wm. B.
Mobin-Uddin, Saeeda
Neri, Anthony S.
Newkirk, Ernest M.
O'Rouke, Donald Eugene
### PERSONNEL ACTIONS (contd)

#### Medical Staff Appointments and Reappointments (contd)

**Clinical Department**

**OBSTETRICS AND GYNECOLOGY (contd)**

<table>
<thead>
<tr>
<th>LIMITED</th>
<th>COURTESY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ault, Kevin A.</td>
<td>Perez, Antonio</td>
</tr>
<tr>
<td>Barg, Michael S.</td>
<td>Petit, George P.</td>
</tr>
<tr>
<td>Dearmont, Karen E.</td>
<td>Richards, Stephen R.</td>
</tr>
<tr>
<td>Diaz, Donna T.</td>
<td>Robinson, Raymond E.</td>
</tr>
<tr>
<td>Douglas, James W.</td>
<td>Rogers, Philip A.</td>
</tr>
<tr>
<td>Eaton, Lynn A.</td>
<td>Russ, John S.</td>
</tr>
<tr>
<td>Farringer, Bruce E.</td>
<td>Socolick, Alan Robert</td>
</tr>
<tr>
<td>Fleming, Christopher M.</td>
<td>Sawaya, George A.</td>
</tr>
<tr>
<td>Graven, Nadine E.</td>
<td>Schaeffer, Karl Ira</td>
</tr>
<tr>
<td>Gretchen, Peggy A.</td>
<td>Sprague, Michael S.</td>
</tr>
<tr>
<td>Harrington, Beverly M.</td>
<td>Stempel, Laurence E.</td>
</tr>
<tr>
<td>Hayes, Rosalind A.</td>
<td>Strafford, J. Craig</td>
</tr>
<tr>
<td>Leard, Rita A.</td>
<td>Veach, J. Douglas</td>
</tr>
<tr>
<td>Paraskos, John P.</td>
<td>Vorys, Nichols</td>
</tr>
<tr>
<td>Pagano, Trina M.</td>
<td>Vosburgh, Lee</td>
</tr>
<tr>
<td>Parker, Michael S.</td>
<td></td>
</tr>
<tr>
<td>Scalzone, John M.</td>
<td></td>
</tr>
<tr>
<td>Shamley, Kirk T.</td>
<td></td>
</tr>
<tr>
<td>Shibley, Kirk A.</td>
<td></td>
</tr>
<tr>
<td>Sonek, Jiří D.</td>
<td></td>
</tr>
</tbody>
</table>

**OPHTHALMOLOGY**

<table>
<thead>
<tr>
<th>ATTENDING</th>
<th>COURTESY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benes, Susan</td>
<td>Baker, Norman D.</td>
</tr>
<tr>
<td>Bennett, Robert</td>
<td>Beran, Robin F.</td>
</tr>
<tr>
<td>Bremer, Don L.</td>
<td>Besson, Michael J.</td>
</tr>
<tr>
<td>Bruce, Robert A., Jr.</td>
<td>Carroll, C. Patrick</td>
</tr>
<tr>
<td>Burns, John A.</td>
<td>Croci, Henry</td>
</tr>
<tr>
<td>Cahill, Kenneth V.</td>
<td>Davidoff, Elliot</td>
</tr>
<tr>
<td>Chambers, Robert B.</td>
<td>Denlinger, David E.</td>
</tr>
<tr>
<td>Collins, Elmer C.</td>
<td>Farber, Sanders M.</td>
</tr>
<tr>
<td>Craig, Elson L.</td>
<td>Garvin, J. Charles</td>
</tr>
<tr>
<td>Dangel, Matthew</td>
<td>Gupta, Mohinder K.</td>
</tr>
<tr>
<td>Davidorf, Frederick H.</td>
<td>Higbee, John W.</td>
</tr>
<tr>
<td>Dingle, J.B.</td>
<td>Kitchen, Calvin B.</td>
</tr>
<tr>
<td>Gerace, Ann</td>
<td>Kuhr, Lora J.</td>
</tr>
<tr>
<td>Havener, William H.</td>
<td>Lembach, Robert E.</td>
</tr>
<tr>
<td>Hickey, Charles J.</td>
<td>Marquardt, John L.</td>
</tr>
<tr>
<td>Huheey, Marilyn</td>
<td>McGowan, Kathleen A.</td>
</tr>
<tr>
<td>Kapetansky, Frederick</td>
<td>McKinlay, Robert T.</td>
</tr>
<tr>
<td></td>
<td>Minning, Carl A., Jr.</td>
</tr>
</tbody>
</table>
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
OPHTHALMOLOGY (contd)

ATTENDING (contd)

Keates, Richard H.
Kelley, Curtin G.
Lembach, Richard G.
Letson, Alan D.
Lubow, Martin
Moses, James L.
O’Dair, Robert B.
Olson, Richard S.
Opremcak, Emil M.
Orland, Richard C.
Stechschulte, John R.
Utrata, Peter J.
Visocan, Phyllis
Wachtel, Joel G.
Weber, Paul A.

COURTESY (contd)

Richards, Paul F.
Rogers, Gary L.
Sherman, Roger H.
Van Fossen, Albert W.

LIMITED

Allen, John G.
Derick, Robert J.
Erdey, Richard A.
Fishman, Deborah R.
George, David S.
Giesel, John N.
Kunesh, Michael T.
Laxon, Leah Carol
Lothes, Eric W.
McAdoo, Jeffrey F.
Meyer, Larry A.
Oehler, Jeffrey C.
Pajka, John T.
Pappa, Karl S.
Quartetti, Eric J.
Rehrmar, Alan Jay
Ringel, David M.
Stahl, Brian R.
Strickler, Scott H.
Viscardi, Jeffrey J.
Walker, Jonathan D.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (cont'd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
OTOLARYNGOLOGY

ATTENDING

Kelly, David Robert
Miglets, Andrew W.
Saunders, William H.
Siegle, Ronald J.

LIMITED

Chase, Daniel W.
Elzinga, Darryl J.
Griffith, Stephen R.
Gross, William E.
Hillsamer, Peter J.
Rao, Mohan Kumar
Rossi, Renee Marie
Seitz, Curtis M.
Whiteman, Thomas S.

PATHOLOGY

ATTENDING

Senhauser, Donald A., Chairman
Ayres, Leona B.H.
Baker, Peter B.
Barth, Rolf F.
Blazina, Janice F.
Boesel, Carl F.
Brandt, John T.
Clausen, Kathryn P.
Green, Cheryl A.
Hammond, Phyllis M. "Sue"
Kennedy, Melanie S.
Keyhani-Rofagha, Sedigheh
Liss, Leopold
Lucas, Joel G.
Marsh, Jr., William L.
Neff, John C.
Pellegrini, Arthur E.
Richardson, Steven L.
Sedmak, Daniel D.

COURTESY

Birck, Herbert George
Booth, Jack B.
Gebhart, Don E.
Irene, Richard T.
Jackson, Daniel G.
Lowery, Howard W.
Main, Thomas Sprague
Mechenbier, James A.

Albarracin, Narciso S.
Hamoudi, Ala B.
Hamoudi, Ayser C.
Qualman, Stephen J.
Zwick, David L.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
PATHOLOGY (contd)

ATTENDING (contd)

Sharma, Hari M.
Speicher, Carl E.
Smith, Jr., Jack W.
Svirbely, John R.
Theil, Karl S.
Tuttle, Steven E.
Yates, Allan J.

LIMITED

Amra, Nasir Khalid
Becker, William J.
Cook, Richard L.
Forsthoefel, Kevin F.
Green, Thomas D.
Hillwig, Robert J.
Houck, Jeffrey Allen
Isenhart, Craig E.
Maia, Sandra T.
Marmaduke, David P.
Marshall, Bruce A.
Uhlenbrock, James M.
Walker, Adonica Louise
Young, Margaret S.

PEDIATRICS

HONORARY

Anderson, Homer A.

ATTENDING

Morrow, Grant, Ill, Chairman
Allen, Hugh D.
Anglin, David L.
Barson, William J.
Brown, Robert T.
Cecalupo, Anthony J
Cohen, Barry A.
Coury, Daniel L.
Cromer, Barbara A.
deLevie, Judith G.
Kapoor, Neena
Kern, Richard A.
May, Susan J.
McClead, Richard E.
Menke, James A.
Miller, Randy R.
Olson, Thomas A.
Powell, Dwight A.
Romshe, Carolyn A.
Ruymann, Frederick B.
Sloan, Howard R.

COURTESY

Adams, John L.
Baldwin, Robert M.
Banks, Joseph H.
Bass, Jack C.
Batterson, Robert E.
Bauer, Stephen R.
Brooks, Gregory I.
Clark, Arthur L.
Couling, Sidney L.
deVerteuil, Virginia K.
Dawdy, W. David
Del Rosario, Antonio J.
Donaldson, Edward E.
Donovan, Lorna F.
Dubin, Alex R.
Foy, James E.
Freno, Janet A.
Heinmiller, Daniel J.
Henderson, Dave E.
Herchline, Marylynn R.
Jones, Virginia H.
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
PEDIATRICS (contd)

ATTENDING (contd)

Sommer, Annemarie
Walston, Philip D.
Westman, Judith A.
Zipf, William B.

LIMITED

Allen, Elizabeth D.
Batisky, Donald L.
Bolon, Claire E.
Bolon, Eileen C.
Bonneau, Amy J.
Brookens, Margaret A.
Carpenter, Denise L.
Connor, Patricia (Benson)
Crecelius, Jeffrey W.
Crocetti, Guy D.
Deutsch, David E.
Dietrich, Ann Marie
Dumont, Robert C.
Eisenhut, Rand E.
Enrione, Maria A.
Erben, Anne N.
Fiala, Joseph F.
Flint, Alan J.
Francis, Patricia A.
Garton, Patricia N.
Getschman, Sarah J.
Gunyula, Lisa A.
Hogan, Marybeth
Hord, Jeffrey D.
Houts, Christopher B.
Igel, Andrea M.
Jenkins, Catherine L.
Kasten, Eileen F.
Kovalchin, John P.
Labian, LuAnn K.
Larkner, Laura M.
LeMay, Diane M.
Leslie, Andrew C.
Littleton, Anne D.
Lo, Warren D.
Long, William W.
Menkus, Sharon D.
Messick, George M.

COURTESY (contd)

Klinger, Robert J.
Kulow, Keith R.
Levitin, Milton
Lindner, Steven E.
MacLean, William C.
May, Albert N.
McIlroy, Mary A.
Mirvis, Bruce R.
Mormol, John L.
Polster, L. Robert
Shepherd, Larry M.
Shultz, John P.
Steiman, Gerald S.
Stroebel, Frank W.
Richardson, Delphis C.
Rueger, William J
Rupp, Germain (Garry) H.
Vasquez, E. Silvia B.
Wahoff, Charles G.
Wall, Patrick M.
Wehe, Robert A.
Williams, Gwynette M.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

LIMITED (contd)

Mosher, Gayle A.
Murtagh, Jennifer J.
Nahouraii, Robert A.
Nankervis, Craig A.
O'Dorisio, M. Sue
Olsheski, Randal S.
Patterson, Alonzo
Perry, Jan E.
Pippin, Cheryl D.
Reiner, Rebecca L.
Riley, Bradley J.
Rue, Laura J.
Segeleon, Joseph E.
Sferra, Thomas J.
Sheets, Eileen H.
Shollenberger, Lee A.
Spaeth, Karyn E.
Smith, Dean A.
Snyder, Catherine A.
Southard, Richard N.
Strand, Barbara J.
Sullivan, Miller J.
Wamser, MaryJo A.
Wilson, Kyle E.
Zibert, Sara A.

PHYSICAL MEDICINE AND REHABILITATION

ATTENDING

Waylonis, George W., Acting Chairperson
Bowyer, Brian L.
Clairmont, Albert C.
Colachis, Sam C.
Johnson, Ernest W.
Matkovic, Velimir
Mysiw, W. Jerry
Pease, William S.

Bazzoli, Allan S.
Powers, James J.

LIMITED

Atchison, James W.
Clinchot, Daniel M.
Cunningham, Dale P.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department

PHYSICAL MEDICINE AND REHABILITATION (contd)

LIMITED (contd)

Doddy, Karyn R.
Fitz, William R.
Gwinn, Michael D.
Haddock, David G.
Jenks, Jeffrey P.
Kaplansky, Bryan D.
McDonough, Nancy K.
Reecer, Mark V.
Rindler, Julie P.
Rosenberg, Sandra K.
Tipton, David B.
Venesy, Deborah A.
Wei, Frank Y.
Whitten, Robert R., Jr.
Wilson, Charleen

PREVENTIVE MEDICINE

ATTENDING

Rund, Douglas A., Acting Chairman
Brown, Charles G.
Bullock, Thomas R.
Gabriel, Paul W.
Gaeuman, John V.
Hall, William L.
Hoekstra, James W.
Keller, Martin D.
Kelley, Michael T.
Martin, Daniel R.
Murphy, Robert J.
Nelson, Richard N.
Roberts, David E.
Rudy, Russell M.
Strauss, Richard H.
VanLigten, Peter F.
Werman, Howard A.

LIMITED

Miller, Roger A.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
PREVENTIVE MEDICINE (contd)

DIVISION-EMERGENCY MEDICINE

ATTENDING

Nelson, Richard N., Acting Director
Brown, Charles G.
Bullock, Thomas R.
Gabriel, Paul W.
Griffith, Robert F.
Hoekstra, James W.
Kelley, Michael T.
Roberts, David E.
Rudy, Russell M.
Rund, Douglas A.
VanLigten, Peter F.
Werman, Howard A.

LIMITED

Bhat, Prashanth
Bowman, Kevin K.
Darnell, Mark T.
Davies, David E.
Dick, Michael R.
Dreyer, Jeffrey R.
Heck, Robert W.
Johnson, Diana M.
Lewis, David K., II
Little, Charles M.
Luu, Tuan Anh
Messick, Genevieve M.
Nejman, Grace D.
Pirrallo, Ronald G.
Smith, Keith R.
Spittler, Genevieve M.
Swart, Gary L.

DIVISION - SPORTS MEDICINE

ATTENDING

Murphy, Robert J., Director
Strauss, Richard
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
PSYCHIATRY

ATTENDING

Nasrallah, Henry A., Chairman
Churchill, Cynthia M.
Coffman, Jeffrey A.
Dilsaver, Steven C.
Jaeckle, Richard S.
Jones, Bruce A.
Larson, Chris N.
Levy, Alan B.
Mavassakalian, Matig R.
Ohringer, Shari R.
Olson, Stephen C.
Pariser, Stephen F.
Pinta, Emil R.
Schmidt, Helmut
Shy, Kathy E.
Stem, Stephen L.
Weller, Ronald A.

LIMITED

Axelson, David B.
Balke, Len D.
Bush, Gladys A.
deGroot, Christopher M.
DelMedico, Valerie J.
Evans, Tina L.
Fayyad, John Antoine
Gemma, Steven M.
Guthrie, Julie A.
Hadaway, Catherine A.
Haidar, Said N.
Hamill, John M.
Hurst, Elizabeth C.
Hurst, Mark A.
Jolin, Edith M.
Jurjus, George J.
Kormanik, Carmela J.
Lettvin, Daniel S.
McCafferty, Mary J.
McCoy, Lane M.
McIntosh, Sara S. Alford-
Miller, Margaret M.
Ohringer, Sari R.
Peters, Marilyn J.

COURTESY

Goldberg, Donald
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
PSYCHIATRY (contd)

LIMITED (contd)

Reichenbacher, Thomas M.
Sanchez, Laura E.
Schwarzkopf, Steven B.
Tamimi, Raed R.
Tumuluru, Rameshwari V.
Werner, Lisa M.
Yaylayan, Shaahnour A.

DIVISION - CHILD PSYCHIATRY

ATTENDING

Weller, Elizabeth B., Director
Arnold, L. Eugene
Koizumi, Hisako
Tolbert, Herman A.

LIMITED

Bush, Gladys
Levy, Sue J.

RADIOLOGY

DIVISION - DIAGNOSTIC RADIOLOGY

ATTENDING

Christoforidis, A. John
Beltran, Javier
Bennett, William F.
Bova, James G.
Brogan, Martha A.
Chakeres, Donald W.
Cunningham, Jerome J.
Freedy, Lucy R.
Mueller, Charles F.
Ragosin, Robert J.
Stockum, Alfred E.
Van Aman, Michael E.

COURTESY

Frye, Thomas R.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Division
RADIOLOGY (contd)

DIVISION - DIAGNOSTIC RADIOLOGY (contd)

LIMITED

Budde, Richard B.
Campanini, D. Scott
Conover, Steven R.
Hackworth, Craig A.
Hughes, Steven R.
Irisk, Ronald D.
Magee, David J.
McConnell, Charles T.
McGhee, Robert B.
Morris, Christopher S.
oehler, Mary C.
Pena, Peter J.
Poulos, Andrew G.
Sodd, Anthony N.
White, Daniel R.
Wong, Gene (Eugene) C.

DIVISION - RADIATION ONCOLOGY

ATTENDING

Gahbauer, Reinhard A.
Grecula, John C.
Hodgson, Sheila E.
Pieters, Richard S., Jr.

LIMITED

Bauer-Giffin, Constance J.
Grecula, John C.

SURGERY

DIVISION - GENERAL SURGERY

LIMITED

Balch, Daniel R.
Brinkman, John B.
Campbell, Kevin G.
Gregory, James S.
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
SURGERY (contd)

DIVISION - GENERAL SURGERY (contd)

LIMITED (contd)

Guse, Thomas R.
Gustafson, Michael L.
Huang, Emina Hui-Na
Kalanges, Lauri K.
Kelly, William B.
Kogan, Michael G.
Lee, Lorri A.
Leppink, Douglas M.
Levitt, Jodie K.
Myers, Paul E.
Offord, James P.
Ohye, Richard G.
Pierotti, Stephen E.
Pollifrone, David L.
Rea, Franco R.
Samani, Daniel J.
Scharf, Wm. R.
Teitelbaum, Daniel H.
Ulrich, Jeffrey C.
Vasko, Susan D.
Vevon, Peter A.
Ward, Linda A.
Wilson, Gary A.
Young, James R.

DIVISION - NEUROLOGIC SURGERY

LIMITED

Behrmann, Donald L.
Brightman, Rebecca P.
Finneran, Mark T.
James, Steven M.
Livingston, Kimberly
McGregor, John M.
Mullin, Bradford B.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
SURGERY (contd)

DIVISION - SURGICAL ONCOLOGY

LIMITED

Chevinsky, Aaron H.
Lavalle, Gregory J.

DIVISION - ORTHOPEDIC SURGERY

LIMITED

Curtis, Steven B.
DiBenedetto, Michael R.
Lettvin, Charles L.
Li, Lawrence Kuo-Chi
Lauro, Gregory R.
Lefkowitz, Michael S.
MacDougall, James B.
Mirly, Harvey L.
Watson, Larry W.
Wittbrodt, David J.

DIVISION - PEDIATRIC SURGERY

LIMITED

Schropp, Kurt P.
Upp, James R.

DIVISION - PLASTIC SURGERY

LIMITED

Back, Lyle M.
Choucair, Ramsey J.
Davies, Barbara L.
McMahan, James D.
July 7, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

Clinical Department
SURGERY (contd)

DIVISION - THORACIC & CARDIOVASCULAR SURGERY

LIMITED

Buckley, Donald C.
Haan, Constance K.
Matheny, Robert G.

DIVISION - UROLOGY

LIMITED

Deighton, Daniel A.
Klump, Richard
Page, Mark

DIVISION - VASCULAR

LIMITED

Rigdon, Edward E.

COLLEGE OF DENTISTRY

DIVISION - GENERAL DENTISTRY

ATTENDING

Wallace, William R., Chairman
App, George Russell
Allen, Carl Michael
DaBreo, Ernest L.
Horton, John Edward
Jolly, Daniel
Marquard, James
Weaver, Joel M.
Vessels, Robert Carl

LIMITED

Davis, John B.
Fieser, Carl R.
Nemecek, Marcia M.
Wohlford, Mark E.

COURTESY

Neal, Clarence J., Jr.
Schroeder, Kathleen L.
Walters, John D.
PERSONNEL ACTIONS (contd)

Medical Staff Appointments and Reappointments (contd)

COLLEGE OF DENTISTRY (contd)

DIVISION - ORAL AND MAXILLOFACIAL SURGERY

ATTENDING

Peterson, Larry J., Director
Anderson, Douglas R.
Carnes, Allen D.
Evans, Thomas W.
Feinberg, Stephen E.
Larsen, Peter R.
Offenburger, Greg L.
Montgomery, Robert D.
Racey, Gary L.
Steinberg, Barry
Troiano, Martin F.
Wallace, William R.

LIMITED

Amborski, James D.
Anderson, Mark W.
Hum, Scott A.
Loetscher, Christian A.
Purdy, William David
Stronczek, Michael J.
Towning, Larry D.
Wohlford, Mark E.

Emeritus Titles

BERTHA A. BOURONCLE, Department of Internal Medicine, with the title Professor Emeritus, effective July 1, 1989.

NICHOLAS M. STEPHIN, Cooperative Extension Service, with the title Associate Professor Emeritus, effective July 1, 1989.

HARRY M. SAGE, JR., Department of Ophthalmology, with the title Clinical Associate Professor Emeritus, effective July 1, 1989.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
RESOLUTION IN MEMORIAM

Resolution No. 90-13

Synopsis: The Academic Affairs Committee recommended the approval of a Resolution in Memoriam for Frances F. Hinman.

RESOLVED, That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Frances F. Hinman

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 20, 1989, of Frances F. Hinman, Instructor Emeritus in the Cooperative Extension Service.

Frances Hinman was born on February 11, 1911, in Osage, Iowa. She received her B.A. in Home Economics Education from Iowa State University in 1940; then spent two years as a Home Economics and English teacher in Bancroft, Iowa. Mrs. Hinman began her Extension experience when she joined the faculty at The Ohio State University in 1962 as an Assistant Instructor in Portage County. She assumed the responsibilities of a County Extension Agent, Home Economics in 1963 and continued in this position until her retirement in 1980, at which time she was named Instructor Emeritus in 1980.

Mrs. Hinman was an active member of garden groups, the Farm Bureau organization and she served on the county board of trustees. Her contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her co-workers and many thousands of Ohio citizens throughout the length and breadth of Portage County.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Frances Hinman. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board’s heartfelt sympathy.

Upon motion of Ms. Casto, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

Mr. Chairman, the Student Affairs Committee met this morning and we are honored to have Dr. Louise Douce who gave a summary of Counseling and Consultation Center and what we expect in counseling at Ohio State University. I believe that everybody that was present was amazed at what Dr. Douce is doing here at Ohio State University in counseling. They offer students individual counseling for career planning, for personal or social problems that they may have, and counseling for couples. Group counseling is available for career information and planning, more effective use of academic potential, test taking anxiety, effective study, participation in short term and ongoing groups and workshops which focus on a variety of topics. I was amazed to find out that Ohio State University faculty are entitled to the same counseling services. Also, the Ohio State graduates, on a much shorter basis, are
Mr. Barone: (contd)

invited to come in and participate. Dr. Douce is most interested in bringing out these things. It is probably one of the busiest areas in the University. Since we are one of the largest universities, the counseling and the area in which the counseling is done is, of course, very limited. They are short on counselors and there is somewhat of a waiting period which she tries to eliminate. Under the circumstances she works with, and the function which she performs in helping the students, graduate students faculty, and even past graduate students, I wish to report she is doing an excellent and tremendous job.

Mrs. Bowser:

This is academic counseling?

Mr. Teaford:

No, this is all psychological counseling. She has ten psychologist on staff and 20 graduate students in psychology who work on her staff as well.

President Jennings:

Not to suggest that all of these cases are serious mental illness. A lot of them are the normal problems that young people have.

Mr. Teaford:

In fact, they refer out all serious cases. They refer them to the medical facility.

Mr. Barone:

She has also been working with groups in the AIDS program and counseling on AIDS.

Mr. Teaford:

Dr. Douce said that it is reported that the national average among college students is 1 out of 300 are HIV positive.

President Jennings:

In Ohio, and nobody quite knows why, we have a larger incident per capita of AIDS at the 16-24 year olds group in the nation. Nobody quite knows why, but our incidents of AIDS in central Ohio is higher, that is not just Ohio State.

Mr. Barone:

She also stated that the staff now has national reputation, and that Ohio State University is probably one of the leaders in counseling of all the universities. I think we all should be proud of the results she has had with these students. I want this Board to know that because I had no idea that we had a a counseling program of this capacity here at the Ohio State University. Any more questions?
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Berry:

Could I say something, Mr. Chairman? In that regard, about a month ago I was in another meeting of another sort and they showed a film -- I am going to say it was produced by the University of Virginia, but I may be incorrect on the school. It was about a 15 minute film on AIDS and college students. It was quite an effective film. If you would like for me to get a hold of a copy, I would be glad to follow up on it. This was a film that was shown wide-spread to the student body. It was quite effective.

President Jennings:

We have similar activities in our summer orientation program where these students come in and there is an orientation period devoted to AIDS and AIDS education, as well as substance abuse.

Mr. Barone:

Thank you, Mr. Chairman. At this time I would like to call for the report of the Interprofessional Council by Steve Dibert.

Mr. Steve Sloan:

Hi, I am Steven Sloan not Steve Dibert. I guess that is getting kind of common now. Steve is looking forward to next year because he will have a more flexible schedule and will be able to go to more of these meetings. I am also looking forward to next year. This past school year I always seemed to face a choice, I could study and or I could pay bills and do paper work. Since I hate paper work, I studied. I studied so much, as a matter of fact, my performance was so noteworthy, now I have several collection agencies interested in me. Thanks, I hope my creditors are as good humored as you are.

Today, I thought that instead of talking about the IPC, I would instead talk about our constituents, that is the professional students. We recently visited each professional school and we asked and asked, until we finally found someone who could help us, for information about just a couple of students -- their most highly decorated students, as I would like to say. Of course, they assured me that all of their students were excellent and worthy of recognition. But, we persisted in our request for just a few students that the school itself was proud of. In fairness to their concerns, you should be informed that each school has more than just a couple of students worthy of recognition. In a somewhat arbitrary manner we took what the schools gave us and selected just one student from each school to mention.

You will see the professional students excel in their profession, in research activities, and also in service, both at a national and an international level. In no particular order I will go through each of these students. In the Veterinary School's Linda Lehmkuhl won first place in a national Hills Nutrition competition as well as the IAM's Paw Print Award, which actually looks like a paw. The Law School's Mimi Dane, who is the Editor and Chief of their law journal was selected and accepted a position as a Clerk for U.S. District Court Judge Lewis Pollack, in the Easter District of Pennsylvania. Judge Pollack is noted for his success in having several of his Clerks go onto clerk for the Supreme Court of the U.S. So the Law School is very happy about that. The Optometry School's Mark Fenton, who is a third year student, is
July 7, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Sloan: (contd)

going to Kenya this summer with the Students Voluntary Optometrical Service for Humanity, also known as S-VOSH. He will fit people in Kenya with glasses that have been donated here in the States. The Dental School's Donald Morgan presented his research at the National Meeting of American Association for Dental Research. He also was selected to compete in the students clinical competition of the American Dental Association. The Medical School's Shaila Patel, a classmate of Sophia's and mine, was selected for a one year research fellowship at the Howard Hughes Medical Institute at the National Institutes of Health. Last year only 34 medical students were selected for this in the United States.

I would like to thank the various people who helped me: Terry Camelford from the Veterinary School; Associate Dean for Admissions Jack Henderson from the Law School; Associate Dean Jack King from the Optometry School; Pat Burkhart from Alumni Affairs; and Dr. Clayman both of the Dental School, and Donna Cavell of the Medical School. I would also like to thank the student for their excellence.

That would have concluded my report except that earlier today I heard that the Board passed a tuition increase. For professional students whose tuition is increasing at a fairly rapid rate, I just wanted to make a few comments. First of all we are disappointed in that. Obviously that means all of us will go further into debt than we already are. But besides that obvious point, I think it is important to note that this may effect the kind of students who apply for professional schools, in particular minorities and women. I think it may have more adverse effects on those people. Second, it may hurt Ohio State's ability to compete with other schools for keeping Ohio residents in Ohio, because right now one of the main competitive advantages is the price differential. If that continues to decrease, we may lose one of our competitive advantages, certainly not the only. Thank you, that does conclude my report.

Mr. Barone:

Thank you, Steve. At this time I would like to call upon Luke Evans for the Council of Graduate Students.

Mr. Luke Evans:

Good afternoon. Let me begin by saying that we, the officers of the Council of Graduate Students, look forward to representing graduate students here at Ohio State, as well as exercising leadership in the National Association of Graduate and Professional Students during this coming academic year. Ohio State may claim they have the largest graduate school in the nation, but we want to claim it is among the best. Toward this end we will endeavor, along with others at this University, to protect and enhance the quality of both the academic and non-academic aspects of graduate education here at Ohio State. Our aim is not to do so at the expense of other significant groups in the university community. If our efforts are to have merit, they must promote the quality and image of the University as a whole, as well as that of graduate education. Of course, we expect the same consideration from other groups working in the University community.
Our efforts to address the academic aspects of graduate education will continue primarily in our annual programs such as the Autumn Graduate Student Orientation, Winter Workshops on topics of academic and professional concern to graduate students, and a Spring Graduate Research Forum. In addition to CGS programs, we will continue to support and co-sponsor campus events that enhance the academic quality of this University such as the TA Orientation and the TA Workshop Series sponsored by the Center for Teaching Excellence. More on the informal side, we are developing strategies aimed at promoting graduate student mentoring both from faculty and senior graduate students for those currently entering and matriculating through their programs. As far as non-academic aspects in graduate education of concern, we will continue to address such matters as the availability of financial aid, affordable, quality student health insurance for students and their dependents, child care, and rising cost of graduate housing. In regard to pertinent financial aid, we continue to monitor the thinking of Congress on pertinent matters as national service, which on some bills threatens financial aid programs as they currently exist, and efforts to restore the deductibility of interest on educational loans. Many of these student loans amount to the size of small house mortgages that have to be paid back in 10-year periods. Deductibility of interest on educational loans would ease the burden of repayment, and not act as a potential barrier for those who need to further their education.

As for student health insurance, NAGS is currently scheduled to mail its new health insurance plan to graduate students nationwide during the latter half of July. We are currently developing a brochure that would compare the major features of Ohio State's policy with that of NAGS for those students who may have basic questions about these policies.

Our summer activities are concentrated around interviewing and appointing graduate students to University committees and preparing our annual graduate student orientation reception. We are dedicated, along with others in the University, toward doing all that we can to assure that new graduate students enter their academic and graduate and associate work with a sense of confidence and enthusiasm. We cannot overemphasize how important it is -- to new graduate students in particular, and the University in general -- to get off to a good start. Finally, contrary to popular belief, I did not grow this beard because Roger had one. I simply got tired of the preppy, yuppy look and decided to look a little closer to my chronological age. Do you have any questions?

Mr. Barone:


Mr. David Straub:

Trustees, Mr. President, distinguished guests, the first thing I would like to do this afternoon is introduce my running mate who I ran with and we went through that USG ordeal of the election process for student government. Bart Deems is back here and he is Vice President of Undergraduate Student Government. Being the last report, I feel I can fill out the remainder of the day til about 5 o'clock, since that it typically when we get off work. I would just like to talk about a few things actually.
Mr. Straub: (contd)

Some of the projects that USG is taking on right now -- or one of the concerns rather -- is an information program to freshmen. And I know we have the freshmen orientation program, but at that time we feel that students are consumed with so much information it is hard for them to decipher what they need to know. Being that we have such a diverse body, we would like to send an information package out to these students. We are in the process currently of sending out a magazine, if you will, of the student leaders around the University. Those will be from the different areas at the University expressing interest in their organizations to those students that may be interested and so on. It is in the rough stages right now, but it is a very important program that we plan on sending to all the incoming freshmen informing them about the activities that they can get involved in.

Another one of the programs that we plan on implementing, through this program with the freshmen, is a parking program. It is a car-pool program that we would like to promote through the student government. Parking is definitely a problem on this campus as we all know. To alleviate some of this we want to set up a data base within the student government office of students that are interested in car-pooling to and from the University. We are coordinating a program with the office of Traffic and Parking so students will be able to link up with each other when departure and arrival times will be similar.

Another program that we have underway is the Student Political Action Committee. Right now at the national level we don't know where political committees will be standing in the near future. But the major concern of the program is to get students actively involved in the voting process, if you will, and involved in the political arena.

In my closing comments I would like to express one of the concerns that I have as a student and as a freshman coming to Ohio State. I came to Ohio State from a high school right in the Central Ohio area and we did not really have a choice in selecting courses. Every quarter a student goes through the process of selecting classes which they will be taking for the quarter, maybe an hour a day or two hours a day, possibly. They receive a package which is a course offering guide, a master schedule, if you will, of the classes that are being offered. As you open it up, it has a list of numbers and times you can take the course. One of the problems I see with this whole system -- and it has its merits -- is that a student has limited information about the course they are taking which. The Course Offerings Handbook has limited information about the classes that a student will be taking in the upcoming quarter, very brief. My analogy with this is that I can find more out about a $15 blouse at Sears, then I could about a course that I will be spending about an hour a day in at The Ohio State University. That is a definite concern. The information in this publication is inadequate and the students don't have enough information about their instructors. If you were going to invest in a company you would not spend $500, for example, let's say on IBM -- you would want a little more information than the price of that stock the week before. So you would talk to your broker and read up on it and see tabloids that had information regarding that stock. A student investing $500 a quarter at the University, which they are doing, has very limited information. The information here is basically the time the course is offered, and possibly the teacher that is teaching the course, and possibly not. One of my goals is to have teacher evaluations published for students so they can have some information about the teachers. I think this can alleviate a lot of this problem. This is just one of the
July 7, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

concerns that we have right now. I am kind of passionate towards this issue because the students are passionate about knowing more about their instructors than they do. It is our belief that the instruction is of high quality, but the information and learning styles of students differ. If we could provide this information to the students, then the students will be able to learn at a better rate than they do currently. That basically concludes my report. I hope you have a great afternoon and if you have any questions, I open the floor.

Ms. Davis:

David, I have a question. The teaching evaluations that you have suggested, what is the process behind that. From what I can see and in talking to different students, a good teacher by student definition is a popular one, but isn't necessarily one who really gets across that material in the best way. Most times the difficult teachers, which aren't necessarily the most popular ones, are the best teachers for that material.

David Straub:

Exactly. From my position, I make the assumption that the teachers are of good quality and can teach the information to the students. We assume that is done through the University system in hiring the teachers that they hire. I guess my response is that we assume every teacher teaching Econ 200 is of good stature and a good teacher. It is up to the student then to select the teacher that is better qualified. It is not our job to make sure the best teacher is teaching the most students, but to get the students with the teacher that is best suited for them. I can give you an example. I usually don't talk about this, and I would rather not, but I am a dyslexic student, and I am enrolled in the Office of Disability Services. I learn in a different way than you may learn. Last quarter I had Roger Blackwell who taught Marketing 650. He is a very eloquent speaker and I learned a great deal from him. Other students learn in a different fashion. There is a variation on the learning capabilities of different students. So what this program will do is help get those bumps and ridges out of the selection process and get the students with the teachers that are best qualified. Right now this is at a very beginning stage. As my office only last for 365 days, I see this as a program that may take a lot longer to develop. I just want to bring it to your attention. It is a major concern of mine and the student population. That basically concludes my report. Any other questions?

Mr. Barone:

David, would you sell your evaluation system to the University?

David Straub:

Yes I would. And I would sell it to everyone along the way.

Mr. Barone:

Any other questions?
July 7, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

President Jennings:

I encourage David and the student government to continue on with this project. First of all, the student evaluations that are used in tenure, promotion, and salary generally separate out the good teachers from the popular teachers. Obviously, there are some exceptions that have to be discounted. Generally, you will find that student evaluations of the faculty members' teaching quality is consistent with the faculty members' evaluation. Most students do think about what they have learned. There are some exceptions obviously. Secondly, this publicizing teacher evaluations has been done before at Ohio State a long time ago. It is not all that unusual in America today. There are certain personnel safeguards that have to be incorporated into it. I know David is looking into that. Other universities have gone through this. I am confident that student evaluations on the average and in general do separate the good teachers from just the popular ones. What we would hope is that all our teachers are good and all are popular, but probably even at Ohio State we might have one or two that has had a bad year.

David Straub:

There is one other point I would like to make regarding this matter. Other student governments at other universities have taken it upon themselves to do this teacher evaluation process. It has not been, I guess, as scientific as I think it should be. It is my concern that it be done through the university rather than student government submitting forms to students, passing around wrong information. I really would like to see the University take a close look at this project, rather than us doing it on our own and not being as efficient as it should be. I think it is a very delicate situation and I am willing to work with whomever to get this program on its way.

Mr. Teaford:

One point that you make -- my son has a learning disability, so I can relate to what you are saying. People do learn differently; therefore, instructors have different gifts that are better for some students than others. That is an important aspect of evaluating teachers, which I never heard expressed before.

President Jennings:

There are different ways of learning; there are also personality clashes. David did mention Dr. Roger Blackwell who has one of the most popular courses on campus, also one of the best courses on campus. It is also interesting to note that Roger has done some experiments with his course. His course has about 800 or 900 students. He has done some experiments with the same course given with roughly 20 students. He ends up with no difference in knowledge gained between the students of the class of 20 and the class of 900. Every instructor is not as good as Roger.

Mr. Barone:

Any further questions? Thank you, David.

--0--
July 7, 1989 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

Dr. Warmbrod is with us, do you want to stand? This is our Acting Dean of Agriculture, and he is with us this morning to present the evolution of the Department of Food Science and Technology which we have already voted on. It does present an interesting aspect of our modern technology and that agriculture needs to move, as all disciplines do, in that area of growing concern. This is, I think, an excellent example of some good work done in the college—drawing two faculties together and making one faculty out of it. One of the interesting things he told us is that the enrollment in that department has doubled in the last several years, so that was an interesting aspect.

We asked him about his strategic plan for the College and that is moving along and hopefully by the end of Autumn Quarter we should have some finished material along those lines.

We had a discussion this morning about the Legislature's funding of Agriculture -- Cooperative Extension and OARDC. And we are very thankful that we received the funding we did. We are most appreciative of the Legislature for the funding we received. I think that completes my Committee report unless there are any questions.

--0--

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

The Fiscal Affairs Committee is recommending for approval the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 90-14

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for May 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of May 1989 be approved.
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR MAY 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>121</td>
<td>$9,190,612.15</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>69</td>
<td>$1,221,004.00</td>
</tr>
<tr>
<td>Total</td>
<td>190</td>
<td>$10,411,616.15</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering (Aid the research, teaching and service programs/facilities) | $47,000.00 |
- The John M. Shepherd Athletic Scholarship Fund (Grant-in-aid scholarships for members of the men's varsity basketball team) | $25,000.00 |
- The Dr. A. J. Christoforidis Lectureship in Radiology (Lectureship on advances in radiology and related educational activities) | $15,000.00 |
- The Margaret Carter Speer and William Raymond Speer Endowment Fund (Assist in satisfying the housing needs of the Alumnae Scholarship House Residents) | $15,000.00 |
- The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund (To provide awards for students in the unit demonstrating outstanding leadership skills and excellent academic achievement) | $5,000.00 |

Change in Description of Named Fund

- The Sigmund & Rita Munster and Family Athletic Endowment Fund
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR MAY 1989 (contd)

Background (contd)

The Ohio State University Foundation

Approval of Description and Establishment of Fund

The H. Justin Davidson Fellowship Fund
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - May 1989

Federal Research Contracts/Grants

$1,823,000.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Allan), 1 May 1989 through 30 April 1990. (Project 767477 - Continuation)


$207,265.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Vascular Healing: Cell and Rheologic Factors, Department of Internal Medicine (D. L. Fry), 1 May 1989 through 30 April 1990. (Project 766884 - Continuation)

$197,013.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Cytotoxic Cocarcinogenic and Antileukemic Agents, Department of Chemistry (L. A. Paquette), 1 June 1989 through 30 June 1990. (Project 763284 - Continuation)

$179,763.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Polycondensed Alcyclics and Their Antiviral Role, Department of Chemistry (L. A. Paquette), 1 May 1989 through 30 April 1990. (Project 763920 - Continuation)

$151,953.00 - Department of Health and Human Services, National Institute of Environmental Health Sciences, Bethesda, Maryland, Genotoxicity in Human Fetal Brain, Dermis, and Kidney Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 June 1989 through 31 May 1990. (Project 763673 - Continuation)

$138,889.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1989 through 30 June 1990. (Project 765529 - Continuation)

$135,000.00 - National Science Foundation, Washington, D.C., The Spectroscopy of Chemical Intermediates and Other Transient Species, Department of Chemistry (T. A. Miller), 1 December 1989 through 30 November 1990. (Project 764814 - Continuation)

$132,813.00 - National Science Foundation, Washington, D.C., Social Psychophysiology Research Program: Phase II, Department of Psychology (J. T. Cacioppo), 1 February 1989 through 28 February 1990. (Project 767272 - Continuation)
**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

<table>
<thead>
<tr>
<th>Amount</th>
<th>Grantor</th>
<th>Description</th>
<th>Department</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$127,619.00</td>
<td>National Science Foundation, Washington, D.C.,</td>
<td>Optimal Design of Large-Scaled Structures with Multianalysis-Type Constraints,</td>
<td>Department of Civil Engineering</td>
<td>15 April 1989</td>
<td>31 March 1992</td>
<td>767449 - New</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Civil Engineering</td>
<td>(O. G. McGee)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$126,000.00</td>
<td>National Science Foundation, Washington, D.C.,</td>
<td>Nuclear Physics at Low and Intermediate Energies, Including the Hadron Charge</td>
<td>Department of Physics (E. R. Sugarbaker)</td>
<td>1 December 1989</td>
<td>30 November 1990</td>
<td>766752 - Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exchange and Radiative Capture Programs,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$124,809.00</td>
<td>Department of Health and Human Services,</td>
<td>Dietary Fat: Physiological Function, Department of Physiological Chemistry</td>
<td>(H. W. Sprecher)</td>
<td>1 May 1989</td>
<td>30 April 1990</td>
<td>764415 - Continuation</td>
</tr>
<tr>
<td></td>
<td>National Institute of Diabetes and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Digestive and Kidney Diseases, Bethesda,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maryland, Dietary Fat: Physiological Function,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Department of Health and Human Services,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>National Institute of Diabetes and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Digestive and Kidney Diseases, Bethesda,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maryland, Dietary Fat: Physiological Function,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$120,000.00</td>
<td>Department of Agriculture, Science and</td>
<td>Validation of a Stochastic Model for Optimizing Greenhouse Pest Management,</td>
<td>Department of Entomology - OARDC</td>
<td>1 July 1989</td>
<td>30 June 1991</td>
<td>767498 - New</td>
</tr>
<tr>
<td></td>
<td>Education, Washington, D.C.</td>
<td>Department of Entomology - OARDC</td>
<td>(D. J. Horn)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Entomology - OARDC</td>
<td>Department of Statistics (R.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Entomology - OARDC</td>
<td>Bartoszynski and D. K. Pearl)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$120,000.00</td>
<td>Department of Energy, Argonne, Illinois,</td>
<td>The Hydrogen Induced Stress Corrosion Cracking of Nickel Base Alloys in</td>
<td>Department of Materials Science</td>
<td>1 June 1989</td>
<td>31 May 1990</td>
<td>766068 - Continuation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High Temperature Water, Department of Materials Science and Engineering</td>
<td>and Engineering (P. G. Shewmon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Materials Science and Engineering (P. G. Shewmon and S. S.</td>
<td>and S. Smialowska)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$108,000.00</td>
<td>National Science Foundation, Washington,</td>
<td>The Chemistry and Electrochemistry of Hot Corrosion of Metals, Department</td>
<td>Department of Materials Science</td>
<td>1 August 1989</td>
<td>31 July 1990</td>
<td>766299 - Continuation</td>
</tr>
<tr>
<td></td>
<td>D.C.,</td>
<td>and Engineering (R. A. Rapp)</td>
<td>and Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$106,300.00</td>
<td>National Science Foundation, Washington,</td>
<td>Basic Mechanisms of Sliding Friction and Wear, Department of Materials</td>
<td>Department of Materials Science</td>
<td>15 March 1988</td>
<td>28 February 1990</td>
<td>766644 - Continuation</td>
</tr>
<tr>
<td></td>
<td>D.C.,</td>
<td>Science and Engineering (D. A. Rigney)</td>
<td>and Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$101,849.00</td>
<td>Department of Health and Human Services,</td>
<td>Targeting of Nodulins and Biogenesis of the Endosymbiotic Compartment,</td>
<td>Biotechnology Program (D. P. S.</td>
<td>1 June 1989</td>
<td>30 November 1990</td>
<td>767492 - New</td>
</tr>
<tr>
<td></td>
<td>National Institute of Diabetes and</td>
<td>Biotechnology Program (D. P. S. Verma)</td>
<td>Verma)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Digestive and Kidney Diseases, Bethesda,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maryland,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$95,706.10</td>
<td>Department of Agriculture, Science and</td>
<td>Bacterial Genes Coding for Plant Ribulose Bisphosphate Carboxylase,</td>
<td>Department of Microbiology (F. R.</td>
<td>1 April 1989</td>
<td>30 November 1989</td>
<td>767446 - New</td>
</tr>
<tr>
<td></td>
<td>Education, Washington, D.C.,</td>
<td>Department of Microbiology (F. R. Tabita)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bacterial Genes Coding for Plant Ribulose</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bisphosphate Carboxylase, Department of</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microbiology (F. R. Tabita)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$94,000.00</td>
<td>Environmental Protection Agency, Washington,</td>
<td>Development of Improved Field Equipment and Interpretation Procedures for</td>
<td>Department of Geology and</td>
<td>1 April 1989</td>
<td>30 November 1989</td>
<td>767446 - New</td>
</tr>
<tr>
<td></td>
<td>D.C.,</td>
<td>Ground Penetrating Radar to Analyze the Geohydrologic Setting of Hazardous</td>
<td>Mineralogy (J. J.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Waste Sites, Department of Geology and Mineralogy (J. J.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Daniels) and ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 29 September 1988 through 28 September 1990. (Project 767043 - Continuation)

$91,200.00 - National Science Foundation, Washington, D.C., Limit and Averaging Theorems in Ergodic Theory, Department of Mathematics (L. Sucheston, J. M. Rosenblatt, and V. Bergelson), 1 December 1989 through 30 November 1990. (Project 766791 - Continuation)

$90,170.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Function of the Enteric Nervous System, Department of Physiology (J. D. Wood), 1 May 1989 through 30 April 1990. (Project 765012 - Continuation)

$88,899.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Novel Uracils, Pyrimidines, Azoles, and Purines, Department of Chemistry (H. Shechter), 1 June 1989 through 31 May 1990. (Project 762793 - Continuation)

$86,143.00 - Department of Defense, Maryland Procurement Office, Fort George G. Meade, Maryland, Models, Mechanisms, and Methods for Integrity Policies, Department of Computer and Information Science (R. S. Sandhu), 22 May 1989 through 21 May 1990. (Project 767491 - New)


$83,159.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Acute Regulation of Casein Secretion and Degradation, Department of Veterinary Pathobiology (C. L. Brooks), 1 May 1989 through 30 April 1990. (Project 765962 - Continuation)

$83,012.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, A "Dynamic" Tension-Time Index Hypothesis, Department of Internal Medicine (T. L. Clanton), 1 May 1989 through 30 April 1990. (Project 766821 - Continuation)

$80,000.00 - Department of Energy, Argonne, Illinois, Molecular Orbital Studies of the Bonding in Heavy Element Organometallics, Department of Chemistry (B. Bursten), 1 July 1989 through 30 June 1990. (Project 765484 - Continuation)

$78,101.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Health Careers Opportunity Program, School of Allied Medical Professions (S. L. Wilson), 1 September 1989 through 31 August 1990. (Project 766127 - Continuation)

$71,596.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Regulation of Human Decidual Prolactin, Department of Internal Medicine (R. D. Jackson), 1 April 1989 through 31 March 1990. (Project 766234 - Continuation)
Federal Research Contracts/Grants (contd)

$65,000.00 - Department of Energy, Argonne, Illinois, Strongly Interacting Fermion Systems, Department of Physics (J. W. Wilkins), 15 May 1989 through 14 November 1989. (Project 766783 - Continuation)

$65,000.00 - National Science Foundation, Washington, D.C., DNA Synthesis in Rice Endosperm, Department of Botany (V. Raghavan), 1 September 1989 through 31 August 1990. (Project 766364 - Continuation)

$63,198.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 30 April 1989 through 30 August 1989. (Project 767472 - New)

$60,499.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Intestinal Toxicity of 5-Fluorouracil and Leucovorin, College of Pharmacy (J. L. S. Au), 1 May 1989 through 30 April 1990. (Project 766016 - Continuation)

$59,996.00 - National Science Foundation, Washington, D.C., Temperature Prediction in Ultra-Precision Machining, Department of Industrial and Systems Engineering (D. A. Lucca), 1 August 1989 through 31 July 1991. (Project 767452 - New)

$56,099.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Mathematical Analysis of the Propagation of Extremely Low Frequency Electromagnetic Energy in Conducting Media, ElectroScience Laboratory, Department of Electrical Engineering (N. N. Wang), 1 April 1989 through 31 March 1990. (Project 767489 - New)

$55,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, A Novel Approach in Formulation of Special Transition Elements, Department of Aeronautical and Astronautical Engineering (N. Sarigul), 13 April 1989 through 9 May 1990. (Project 765939 - Continuation)

$55,000.00 - National Science Foundation, Washington, D.C., Structural Requirements for Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 December 1989 through 30 November 1990. (Project 766800 - Continuation)

$54,130.00 - National Science Foundation, Washington, D.C., Diversity and Distribution of Fossil Floras from Southern Victoria Land, Antarctica, Byrd Polar Research Center (E. L. Taylor and T. N. Taylor) and Department of Botany (T. N. Taylor), 1 April 1988 through 30 September 1990. (Project 766664 - Continuation)

$52,801.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Modeling of Free Surface Viscoelastic Jets and Instability Mechanisms, Department of Mathematics (G. Forest) and Department of Engineering Mechanics (S. E. Bechtel), 1 April 1989 through 31 March 1990. (Project 766707 - Continuation)

$50,000.00 - National Science Foundation, Washington, D.C., Large-Scale Distributed Modeling and Parameter Estimation of Power Transformer, Department of Electrical Engineering (A. Keyhani and S. A. Sebo), 1 June 1989 through 30 November 1990. (Project 767454 - New)
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$49,791.00 - Department of Agriculture, Science and Education, Washington, D.C., Population Dynamics of Velvetleaf in Conventional and No-Tillage Corn, Department of Agronomy - OARDC (J. Cardina) and Department of Agronomy (E. E. Regnier), 1 May 1989 through 30 April 1991. (Project 767474 - New)


$40,463.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen, and M. J. Tarr), 16 December 1988 through 15 December 1989. (Project 765188 - Continuation)

$40,000.00 - National Science Foundation, Washington, D.C., Probes of the Broad Line Region, Department of Astronomy (J. A. Baldwin), 1 September 1989 through 31 August 1990. (Project 767001 - Continuation)

$34,000.00 - National Science Foundation, Washington, D.C., Non-Commutative Harmonic Analysis, Department of Mathematics (H. Moscovici and R. J. Stanton), 15 June 1988 through 30 November 1990. (Project 766790 - Continuation)

$33,700.00 - National Science Foundation, Washington, D.C., Geometry and Topology of Complex Variables and Manifolds in Low Dimensions, Department of Mathematics (W. D. Neumann), 1 June 1989 through 31 May 1990. (Project 767479 - New)

$31,750.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, The Toxicology of Hydantoins in Relation to Oral Biology, Department of Pharmacology (D. Couri and D. A. vonDeutsch), 1 May 1989 through 30 April 1990. (Project 764537 - Continuation)

$31,720.00 - National Science Foundation, Washington, D.C., The Geography of High Technology Industry in Japan, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (M. F. Kenney), 1 May 1989 through 30 April 1990. (Project 767493 - New)

$30,500.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Mechanisms of Lymphocyte-Mediated Bone Resorption, Department of Veterinary Pathobiology (C. C. Capen and L. K. McCauley), 7 June 1989 through 6 June 1990. (Project 766748 - Continuation)

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$29,400.00 - National Science Foundation, Washington, D.C., Study of Association Schemes and Their Character Tables, Department of Mathematics (E. Bannai), 1 June 1989 through 31 May 1990. (Project 767482 - New)

$29,018.00 - National Science Foundation, Washington, D.C., Theoretical and Empirical Studies of Communities in Stochastic Environments, Department of Zoology (P. L. Chesson), 1 June 1989 through 31 May 1990. (Project 766066 - Continuation)

$20,200.00 - National Science Foundation, Washington, D.C., Formal Systems and Combinatorics, Department of Mathematics (T. J. Carlson), 1 November 1989 through 31 October 1990. (Project 766044 - Continuation)

$20,000.00 - Department of Agriculture, Washington, D.C., Small Area Estimation of Agricultural Products, Department of Statistics (P. K. Goel and E. Stasny), 1 June 1989 through 31 May 1991. (Project 767475 - New)

$20,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 1 May 1989 through 30 April 1990. (Project 767476 - New)

$19,900.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 16 September 1989 through 31 December 1989. (Project 766608 - Continuation)

$15,048.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 1 June 1989 through 31 December 1989. (Project 765240 - Continuation)

$12,000.00 - National Science Foundation, Washington, D.C., Composition Laws for Sums of Squares, Department of Mathematics (T. L. Smith and J. C. Ferrar), 1 June 1989 through 31 May 1990. (Project 767481 - New)


$5,250.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Binding Properties of Rhodium (II) Carboxylate Complexes, Department of Chemistry (B. E. Bursten and K. I. Goldberg), 12 May 1989 through 11 August 1989. (Project 766735 - Continuation)

$4,000.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Frontiers in Smooth Muscle Research: Emil Bozler Symposium, Department of Physiology (J. A. Rall), 1 May 1989 through 30 April 1990. (Project 767488 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$3,665.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integrated Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1989 through 31 December 1990. (Project 766995 - Continuation)

$1,489.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1989 through 31 December 1989. (Project 760578 - Continuation)

$900.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 April 1989 through 30 June 1989. (Project 767460 - Continuation)

$900.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 April 1989 through 30 June 1989. (Project 767461 - Continuation)

TOTAL-FEDERAL AWARDS $6,971,646.10

State of Ohio Research Contracts/Grants

$250,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Earlier Breast Cancer Detection by Physiologic Breast Profiling, Department of Surgery (W. B. Farrar), 1 May 1989 through 30 April 1991. (Project 767436 - New)

$195,693.00 - State of Ohio, Department of Development, Columbus, Ohio, Communication System for Speech and Hearing Impaired Persons, Biomedical Engineering Center (M. B. Waldron) and Department of Otolaryngology (W. Melnick), 1 June 1989 through 30 November 1990. (Project 767430 - New)

$72,303.00 - State of Ohio, Department of Health, Columbus, Ohio, Outreach Education, Department of Pediatrics (L. Cordero), 1 October 1988 through 30 September 1989. (Project 764100 - Continuation)

$48,274.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio's Martin W. Essex School for the Gifted -- 1989, College of Education - Administration (T. M. Stephens) and Department of Educational Services and Research (R. H. Swassing), 1 April 1989 through 31 March 1990. (Project 767443 - Continuation)

$42,000.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Health Insurance and Retirement Options for Persons with Developmental Disabilities in Ohio, Nisonger Center (S. R. Schroeder and T. Fish), 1 May 1989 through 30 April 1990. (Project 767486 - New)
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$39,749.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Developmental Disabilities Program Education Survey, College of Education - Administration and Department of Educational Services and Research (K. D. Arnold), 1 April 1989 through 31 March 1990. (Project 767444 - New)

$35,000.00 - State of Ohio, Air Quality Development Authority, Columbus, Ohio, The Development of Observationally-Based Communication Strategies for Communicating Risk and Risk Assessment, Department of Communication (B. Dervin), 1 June 1989 through 30 June 1990. (Project 767469 - New)

$30,499.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Homeless Children and Their Mothers, Department of Family and Community Nursing (J. A. Wagner), 1 March 1989 through 28 February 1990. (Project 767429 - New)

$15,000.00 - State of Ohio, Department of Agriculture, Columbus, Ohio, Development and Testing of an Improved Biological Insecticide Against Gypsy Moth in Ohio, Department of Biochemistry (D. H. Dean), 1 May 1989 through 30 April 1990. (Project 767484 - New)

$11,220.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Household Formation, Homeownership, and Housing Quantity Decisions, Academic Faculty of Finance (R. L. Racster), 1 June 1989 through 15 May 1990. (Project 767494 - New)

$9,996.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Marketing the Abilities of Persons with Developmental Disabilities to Potential Employers, Center on Education and Training for Employment (R. D. Ryan), 1 March 1989 through 28 February 1990. (Project 766602 - Continuation)

$7,105.00 - State of Ohio, Department of Development, Columbus, Ohio, Extraction, Separation, and Analysis of High Sulfur Ohio Coal, Department of Chemistry (S. V. Olesik), 1 April 1989 through 31 December 1989. (Project 765906 - Continuation)

TOTAL - STATE OF OHIO AWARDS $ 756,839.00

Industrial Research Contracts/Grants

$164,671.00 - Berlex Laboratories, Inc., Cedar Knolls, New Jersey, Illoprost in Patients with Severe Atherosclerotic Peripheral Arterial Disease, Department of Surgery (J. G. Wright), 1 June 1989 through 31 May 1991. (Project 767448 - New)

$105,812.00 - Sandoz, Inc., East Hanover, New Jersey, Evaluation of Efficacy and Safety of Sandostatin in the Treatment of Patients with Acquired Immunodeficiency-Related Diarrhea, Department of Internal Medicine (F. B. Thomas), 1 May 1989 through 31 July 1989. (Project 767487 - New)

$105,403.30 - Winthrop Pharmaceuticals, New York, New York, Omnipaque Cooperative Study: Randomized, Double-Blind Comparison of OmnipaqueR 350 and RenografinR 76 in Adult Patients with Normal or Abnormal Renal Function and With or Without Diabetes Mellitus
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Undergoing Angiocardiography, Department of Internal Medicine (D. B. Van Fossen), 15 February 1989 through 15 February 1991. (Project 767428 - New)

$90,000.00 - Dianon Systems, Inc., Stratford, Connecticut, Studies on a Human Tumor Marker Protein, Department of Physiological Chemistry (D. E. Schumm and T. E. Webb), 1 June 1989 through 30 June 1990. (Project 767496 - New)


$65,650.00 - Mission Research Corporation, Santa Barbara, California, Compact Range System Development, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 17 March 1989 through 1 September 1989. (Project 767463 - New)

$53,000.00 - Textron Defense Systems, Wilmington, Massachusetts, Compact Range Studies, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 10 March 1989 through 28 April 1989. (Project 767368 - New)

$52,000.00 - International Business Machines Corporation, Yorktown Heights, New York, Development of Phenomenological Relativistic Approach to Nuclear Physics, Department of Physics (B. C. Clark and R. J. Perry), 1 October 1989 through 30 September 1990. (Project 765137 - Continuation)

$49,989.00 - Lederle Laboratories, Pearl River, New York, Lederle Protocol 60-16, Department of Pediatrics (L. K. Grossman), 1 May 1989 through 30 April 1990. (Project 767447 - New)

$49,880.00 - Textron Defense Systems, Wilmington, Massachusetts, Hybrid Body RCS Code Development, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 21 March 1989 through 31 March 1990. (Project 767375 - New)


$32,915.55 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink) and College of Pharmacy (J. J. MacKichan), 1 May 1989 through 28 February 1990. (Project 766635 - Continuation)

$24,975.00 - Sandia Corporation, Albuquerque, New Mexico, The Influence of Surface Modification on Hydrogen Interaction with Metallic Surfaces, Department of Materials Science and Engineering (B. E. Wilde), 24 April 1989 through 30 September 1989. (Project 767464 - New)
Industrial Research Contracts/Grants (contd)

$20,000.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, ElectroScience Laboratory, Department Electrical Engineering (R. J. Marhefka), 24 April 1989 through 30 June 1989. (Project 766088 - Continuation)


$10,000.00 and Materials and Supplies - Santa Fe Pacific Mining, Inc., Albuquerque, New Mexico, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 May 1989 through 30 April 1990. (Project 766219 - Continuation) (Approximate Dollar Value - $15,000)

$4,773.00 - Vistakon, Inc., Jacksonville, Florida, Corneal Endothelial Status During Three Months of Low Plus Hydrogel (Acuvue/Durasoft 3) Extended Wear, College of Optometry (J. P. Schoessler), 1 April 1989 through 31 October 1989. (Project 767451 - New)

$3,990.00 - The Procter and Gamble Company, Cincinnati, Ohio, In Vitro Study of 0.12% Chlorhexidine and 0.12% Chlorhexidine/0.2% Sodium Fluoride Rinse on Stain and Plaque Associated Demineralization with Orthodontic Bracket Placement on Bovine Enamel, Oral Biology (K. Schroeder), 1 April 1989 through 31 March 1990. (Project 767488 - New)


TOTAL - INDUSTRIAL AWARDS $ 950,989.47

Other Non-Federal Research Contracts/Grants


$80,000.00 - Rockefeller Foundation, New York, New York, International Program in Pharmacoepidemiology and Therapeutics, Department of Internal Medicine (C. M. Kunin), 1 March 1989 through 28 February 1990. (Project 767457 - New)

$67,984.00 - Duke University, Durham, North Carolina, Characterization and Therapy of New Fat-Oxidation Defects, Department of Physiological Chemistry (H. W. Sprecher), 1 April 1989 through 31 March 1990. (Project 767453 - New)

$58,966.00 - University of California, Livermore, California, Thermodynamic Modeling of Sensitization and SCC Performance of Candidate Materials for Containment of High Level Nuclear Waste, Department of Materials Science and Engineering (B. E. Wilde), 1 December 1988 through 30 September 1989. (Project 766496 - Continuation)
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$48,300.00 - Council for Tobacco Research - U.S.A., Inc., New York, New York, Biological Synergism Between Glucarate and Retinoids, Department of Physiological Chemistry (T. E. Webb), 1 July 1989 through 30 June 1990. (Project 766741 Continuation)

$28,380.00 - American Heart Association, Dallas, Texas, Cardiovascular Effects of B1 Kinins, Department of Physiology (P. E. Ward), 1 July 1989 through 30 June 1990. (Project 767459 - New)

$25,000.00 - Alfred P. Sloan Foundation, New York, New York, Alfred P. Sloan Research Fellow, Department of Chemistry (A. W. Czarnik), 16 September 1989 through 15 September 1991. (Project 767483 - New)

$21,000.00 - National Kidney Foundation, Inc., New York, New York, National Kidney Foundation Research Fellowship, Department of Internal Medicine (L. A. Hebert and D. M. Ricker), 1 July 1989 through 30 June 1990. (Project 767466 - New)

$14,495.00 - University of Puerto Rico, Rio Piedras, Puerto Rico, Workshops for Teachers on the Humane Care and Use of Vertebrates in Education and Student Research, Laboratory Animal Center, Department of Surgery, and Biomedical Engineering Center (J. F. Cornhill), 15 May 1989 through 15 August 1989. (Project 767490 - New)


$10,000.00 - International Center for the Preservation of Wild Animals, Columbus, Ohio, Development of a Baseline Digital Data Base of the Biopark, Phase I (Digital Terrain Model), Center for Mapping (J. D. Bossler), 1 May 1989 through 15 July 1989. (Project 767485 - New)

$10,000.00 - United States Golf Association, Far Hills, New Jersey, Monoclonal Antibodies for Rapid Diagnosis of Summer Patch and Necrotic Ring Spot Diseases of Turfgrass, Department of Plant Pathology - OARD and Department of Plant Pathology (W. W. Shane) and Cooperative Extension State Operations and Department of Plant Pathology (S. T. Nameth), 28 April 1989 through 27 April 1990. (Project 765882 - Continuation)

$9,824.00 - Battelle Memorial Institute, Columbus, Ohio, Analysis of Current and Selected Soviet Literature on Carbon Monoxide Lasers, Department of Mechanical Engineering (J. W. Rich), 15 March 1989 through 31 August 1989. (Project 767445 - New)


$7,710.00 - March of Dimes Birth Defects Foundation, Central Ohio Chapter, Columbus, Ohio, High Risk Perinatal Project: Teen Pregnancy Program, Department of Pediatrics (L. Cordero), 1 May 1989 through 30 April 1990. (Project 767406 - New)
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$6,537.00 - University of Kentucky, Lexington, Kentucky, Development and Presentation of a Workshop on the Humane Care and Use of Animals in the Classroom, Laboratory Animal Center (J. F. Cornhill), 1 May 1989 through 31 July 1989. (Project 767458 - New)

$6,072.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Pathology (R. O'Toole), 1 January 1989 through 31 December 1989. (Project 761460 - Continuation)

$3,574.00 - American Dental Hygienists' Association, Chicago, Illinois, Dental Hygienists' Utilization of Periodontal Assessment Skills Compared to Level of Collaboration with Their Dentist-Employer, Dental Hygiene (J. M. Uldricks), 1 October 1988 through 30 September 1989. (Project 767442 - New)

$2,200.00 - Greater Columbus Arts Council, Columbus, Ohio, Grandparents Living Theatre, Department of Theatre (J. Reilly), 1 October 1989 through 1 June 1990. (Project 767470 - New)


$1,898.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1989. (Project 765208 - Continuation)

$1,000.00 - American Chemical Society, Washington, D.C., Tumor Marker Protein, Department of Physiological Chemistry (D. E. Schumm) and College of Medicine - Administration (C. L. Yash), 12 June 1989 through 18 August 1989. (Project 767480 - New)


TOTAL - OTHER NON-FEDERAL AWARDS $ 511,137.58

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$250,000.00 - from the Edison Program, Columbus, Ohio, and Adtech Systems, Columbus, Ohio, for "Failure mechanisms in Composite Materials and Structures: Global Local Finite Element Method," under the direction of the department of Civil Engineering for the period March 1, 1989 through February 28, 1991. (312498)
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

State Sponsored Research and Development (contd)

$74,759.00 - from Department of Development, Columbus, Ohio and LTV Steel, Columbus, Ohio, for "Development of Improved Rolls for Steel Continuous Casting," under the direction of the department of Welding Engineering for the period May 1, 1989 through April 30, 1990. (529803)

$6,747.00 - from University of Cincinnati/Board of Regents, Columbus, Ohio, for "Ohio Aerospace Institute Ad Hoc Committee Support," under the direction of the department of Mechanical Engineering for the period November 1, 1988 through October 31, 1989. (529789, Ext. 1)

STATE SPONSORED RESEARCH AND DEVELOPMENT $331,506.00

Industrial and Other Sponsored Research and Development

$234,000.00 - from various industry for memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$200,000.00 - from Gas Research Institute, Chicago, IL, for "The Determination of the Performance Life of Heat Fusion Joints in Polyethylene Gas Pipe," under the direction of the department of Engineering Mechanics for the period October 1, 1988 through September 30, 1990. (529804)

$88,789.00 - from Electric Power Research Institute, Palo Alto, CA, for "Primary Water Stress Cracking Corrosion Crack Growth of Alloy 600 Tubing," under the direction of the department of Materials Science and Engineering for the period April 24, 1987 through February 28, 1990. (312412, Ext. 4)

$80,844.00 - from Textron Lycoming, Stratford, CT, for "Feasibility Study: Laser Brazing of Recuperator Plates," under the direction of the department of Welding Engineering for the period May 1, 1989 through November 30, 1989. (312509)

$45,282.00 - from McDonnell Douglas, St. Louis, MO, for "Analysis of Electromagnetic Scattering from Three Dimensional Coated Bodies," under the direction of the department of Electrical Engineering for the period May 1, 1989 through April 30, 1990. (312507)

$44,955.00 - from McDonnell Douglas, St. Louis, MO, for "Uniform Theory of Diffraction Analysis of Electromagnetic Scattering from Corners and Vertices," under the direction of the department of Electrical Engineering for the period May 1, 1989 through December 31, 1989. (312506)

$41,000.00 - from Lockheed Aeronautical System Co., Burbank, CA, for "Wind Tunnel Testing of Two Element Airfoil Models," under the direction of the department of Aeronautical and Astronautical Engineering for the period May 1, 1989 through December 31, 1989. (312505)

$34,551.00 - from 40 sponsors of 51 development projects under the direction of the 3 departments/research areas of the College.

$30,000.00 - from Boeing Company, Seattle, WA, for "Physically-based Models for Heterostructure Devices," under the direction of the department of Electrical Engineering for the period March 27, 1989 through December 31, 1989. (312503)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$30,000.00 - from the City of Columbus, Department of Public Utilities, Columbus, OH, for "An Aviation Statistical Data Bank," under the direction of the department of Aviation for the period March 30, 1989 through December 31, 1989. (312504)

$20,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the department of Electrical Engineering. (312884)

$15,701.00 - from Westinghouse, Sunnyvale, CA, for "Evaluation of Gear Mesh Transmission Error," under the direction of the department of Mechanical Engineering for the period May 1, 1989 through November 30, 1989. (529805)

$10,000.00 - from Boeing Advanced Systems, Seattle, WA, for "Electromagnetic Testing of the Harris Dual Reflector Compact Range," under the direction of the department of Electrical Engineering for the period December 8, 1988 through December 31, 1989. (312495, Ext. 1)

$7,622.00 - from Edison Welding Institute, Columbus, OH, for "Development Proposal: Inertia Welding of Alumina Reinforced 6061 Aluminum," under the direction of the department of Welding Engineering for the period April 17, 1989 through June 30, 1989. (312500)

$7,000.00 - from various industry for membership in the Gear Research Laboratory, under the direction of the department of Mechanical Engineering. (529735)

$-246.00 - from Lockheed Missiles & Space Company, Sunnyvale, CA, for "Technical Assistance/Large Compact Range Project," under the direction of the department of Electrical Engineering for the period January 1, 1989 through January 20, 1990. (312496)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $1,221,004.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering

The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering was established July 7, 1989, by the Board of Trustees of The Ohio State University with a gift from the estate of Albert Dickey (B.S.E.E. ’23) in memory of his parents, Sarah Eliza and Martin Luther Dickey.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Ten percent (10%) of the annual income shall be reinvested in the fund's principal to ensure future growth. The remaining ninety percent (90%) of the annual income shall be used for purposes which will aid the research, teaching and service programs/facilities within the
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering (contd)

Department of Electrical Engineering in the College of Engineering. The chairperson of the Department of Electrical Engineering will have sole authority to authorize expenditures from the fund, as approved by the Dean of the College of Engineering.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The John M. Shepherd Athletic Scholarship Fund

The John M. Shepherd Athletic Scholarship Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John M. Shepherd (B.Cer.E. '58, M.B.A. '59) of Cincinnati, Ohio.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to supplement the grant-in-aid scholarship costs of qualified student athletes pursuing undergraduate degrees at The Ohio State University who are members of the men's varsity basketball team. Recipients shall be selected by the Director of Athletics in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Director of Athletics in order to carry out the desire of the donor.

The Dr. A. J. Christoforidis Lectureship in Radiology

The Dr. A. J. Christoforidis Lectureship in Radiology was established July 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. A. John and Ann A. Christoforidis.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a lectureship on advances in radiology and related educational activities within the Department of Radiology at The Ohio State University College of
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Dr. A. J. Christoforidis Lectureship in Radiology (contd)

Medicine. Expenditures from the fund shall be authorized by the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donors.

The Margaret Carter Speer and William Raymond Speer Endowment Fund

The Margaret Carter Speer and William Raymond Speer Endowment Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estates of Margaret Carter Speer (B.S.Ed. ’23) and William Raymond Speer (B.S.Bus.Adm. ’23, J.D. ’27) of Columbus, Ohio.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to assist in satisfying the housing needs of the Alumnae Scholarship House Residents. Expenditures from the fund shall be authorized by the Alumnae Scholarship House Advisory Board.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Alumnae Scholarship House Advisory Board, in order to carry out the desire of the donors.

The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund

The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Mrs. Anne Hayes of Columbus, Ohio, in memory of her late husband, Wayne Woodrow 'Woody' Hayes, and his wartime naval service as a commissioned officer and his commitment to and appreciation of the Naval Reserve Officer Training Corps Unit at The Ohio State University.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
Establishment of Named Funds (contd)

The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund (contd)

The annual income shall be used under the direction of the commanding officer of the Naval Reserve Officer Training Corps to provide awards for students in the unit demonstrating outstanding leadership skills and excellent academic achievement as reflected by their selection as student battalion commanders.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative officer in order to carry out the desire of the donor.

Change in Description of Named Fund

The Sigmund & Rita Munster and Family Athletic Endowment Fund

The Sigmund & Rita Munster and Family Athletic Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Sigmund Munster family of Columbus, Ohio. The description was revised July 7, 1989.

All gifts are to be invested in the University’s permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide funds for student athlete scholarships as determined by the Director of Athletics. Selection of the recipients is to be made by the Director of Athletics in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University then responsible for the intercollegiate athletic program, in order to carry out the desire of the donors.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

The H. Justin Davidson Fellowship Fund

The H. Justin Davidson Fellowship Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Business.
July 7, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION (contd)

Approval of Description and Establishment of Fund (contd)

The H. Justin Davidson Fellowship Fund (contd)

Income provided by the Foundation shall be used to provide an award(s) to the highest performing, first-year, full-time student(s) in the College of Business' Master of Business Administration program. Special consideration will be extended to graduate students who are not receiving any significant financial assistance from the program, the College or the University. Selection of the recipients will be made by the Dean of the College of Business, in consultation with the University Committee on Student Financial Aid.

--0--

Employment of Architects/Engineers and Request for Construction Bids

Background

DINING COMMONS REMODELING - PHASE I, NORTH COMMONS

On November 16, 1987, the Board of Trustees approved the employment of an architectural firm and food service consultant to prepare a master plan, budget, and detailed program of requirements for construction for this project. The master plan and detailed program of requirements have been completed, and the University is ready to move forward with the project, which will be accomplished in five phases to update and remodel the existing kitchen, serving area, and dining areas of North, Raney, Baker, Kennedy, and Morrill Commons.

Phase I will remodel two levels of North Commons and includes the existing kitchen, serving area, and dining areas. Due to the advanced age of the equipment in the food preparation areas, much of it will be replaced with new and more efficient equipment. The new kitchen design will use existing plumbing and electrical facilities where feasible, with new services added. The serving area will be completely updated to accommodate the changing service needs of the facility and the dining area will change only as needed to address the changes created in the serving functions and functional requirements of the dining facility.

Funds for the project are available from Residence and Dining Halls. Construction costs for Phase I are estimated at $2,560,000, and the total estimated Phase I project cost is $3,200,000.

(See Appendix III for map, page 119.)

EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST CONSTRUCTION BIDS

Resolution No. 90-15

DINING COMMONS REMODELING - PHASE I, NORTH COMMONS

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for Phase I of the Dining Commons Remodeling.
EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST CONSTRUCTION BIDS (contd)

WHEREAS this five phase project will remodel the dining area, kitchen, serving area, and entrance lobbies of North, Raney, Baker, Kennedy, and Morrill Commons; and

WHEREAS Phase I of this project will accomplish desired changes in the North Commons; and

WHEREAS the total estimated cost of this phase of the project is $3,200,000, with the estimated construction cost being $2,560,000, with funding provided from Residence and Dining Halls:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project, and that the fees for these services be negotiated between the firms selected and University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established State of Ohio and University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix IV for a complete tabulation of bids on all projects and locator maps, page 121. Amounts shown with an * include accepted alternates.)

Masonry Repairs - Bricker Hall

This project will replace the damaged and deteriorated exterior masonry on the Bricker Hall parapet. The total project cost is $66,095.00; funding is provided from State capital appropriations (House Bill 810). The estimated completion date is November 1989. The contract awarded is as follows:

<table>
<thead>
<tr>
<th>General Contract: General Maintenance, Columbus, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount: $59,176.00 *</td>
</tr>
<tr>
<td>Estimate: $76,000.00 *</td>
</tr>
<tr>
<td>Total All Contracts: $59,176.00 *</td>
</tr>
<tr>
<td>Contingency Allowance: $ 5,919.00 (10% of construction cost)</td>
</tr>
<tr>
<td>Total Project Cost: $66,095.00</td>
</tr>
</tbody>
</table>
July 7, 1989 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Masonry Repairs - Pomerene Hall

This project will renovate the damaged and deteriorated exterior masonry on Pomerene Hall. The total project cost is $128,250; funding is provided from State capital appropriations (House Bill 810). The estimated completion date is November 1989. The contract awarded is as follows:

General Contract: H. K. Phillips, Columbus, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>Estimate</th>
<th>Total All Contracts</th>
<th>Contingency Allowance</th>
<th>Total Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$115,664.00</td>
<td>$160,000.00</td>
<td>$115,664.00</td>
<td>$11,586.00 (10% of construction cost)</td>
<td>$128,250.00</td>
</tr>
</tbody>
</table>

Dodd Hall Interface

This project will improve the first and second floors of Dodd Hall in order to integrate the activities of Dodd Hall and the Davis Medical Center. The total project cost is $1,230,500; funding is provided from University funds. The estimated completion date is February 1991. The contract awarded is as follows:

General Contract: Functional Development, Dublin, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>Estimate</th>
<th>Total All Contracts</th>
<th>Contingency Allowance</th>
<th>Total Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$987,689.00</td>
<td>$1,142,890.00</td>
<td>$876,769.00</td>
<td>$99,260.79 (10% of construction cost)</td>
<td>$1,230,500.00</td>
</tr>
</tbody>
</table>

Dodd Hall HVAC System Modifications

This project will modify and upgrade the HVAC system to provide a new four pipe fan coil system for patient comfort and health through improved air quality, dust control, and ventilation. The total project cost is $1,393,030; funding is provided from University funds. The estimated completion date is February 1991. Contracts awarded are as follows:

83
Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Dodd Hall HVAC System Modifications (contd)

Fire Protection Contract: Franklin Fire Sprinkler, Columbus, Ohio

Amount: $135,912.00
Estimate: $182,694.00

Plumbing Contract: C. W. Construction, Groveport, Ohio

Amount: $109,975.00
Estimate: $149,073.00

HVAC Contract: J. A. Guy, Dublin, Ohio

Amount: $603,700.00
Estimate: $550,919.00

Electric Contract: Royal Electric, Columbus, Ohio

Amount: $278,600.00
Estimate: $286,300.00

Total All Contracts: $1,128,187.00
Contingency Allowance: $112,819.67 (10% of construction cost)
Total Project Cost: $1,393,030.00

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-16

MASONRY REPAIRS - BRICKER HALL
MASONRY REPAIRS - POMERENE HALL
DODD HALL INTERFACE
DODD HALL HVAC SYSTEM MODIFICATIONS

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to the lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.
July 7, 1989 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

MASONRY REPAIRS - BRICKER HALL
MASONRY REPAIRS - POMERENE HALL
DODD HALL INTERFACE
DODD HALL HVAC SYSTEM MODIFICATIONS (contd)

WHEREAS a resolution adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Masonry Repairs - Bricker Hall and Masonry Repairs - Pomerene Hall; and

WHEREAS resolutions adopted by the Board of Trustees on November 6, 1987, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Dodd Hall Interface and Dodd Hall HVAC System Modifications:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Masonry Repairs - Bricker Hall, Masonry Repairs - Pomerene Hall, Dodd Hall Interface, and Dodd Hall HVAC System Modifications projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

1989-90 BUDGET PRESENTATION

Mr. Ihrig:

Today we are presenting Ohio State's first billion dollar current funds budget for your approval. This budget of $1,080,000,000.00 dollars, while sounding very big in total dollars, in reality it represents a tight budget throughout the University. This new biennium is what I call a "foundation building" biennium for Ohio State. This means a period to continue the progress toward enhancing excellence by consolidating the outstanding gains achieved over the past two biennia, or four years.

Let me try to explain this graphically. After the disastrous period of the early 1980's when State support was flat, with periods of cutbacks and inflation in double digits, the instructional subsidies have grown at a fairly steady rate. For this support, Ohio State is most grateful to the Ohio General Assembly. However, to understand the real impact of State support on Ohio State's Columbus Campus, we need to look at the instructional subsidy in constant dollars, i.e. adjusted for inflation. This chart shows the instructional subsidy adjusted for inflation based not upon the CPI, which does not reflect Ohio State's costs, but the Higher Education Price Index which more closely reflects our true costs. You can see that the high inflation of the early 1980's took its toll, with real recovery beginning in the 1985-87 biennium. Even so, we
1989-90 BUDGET PRESENTATION (contd)

Mr. Ihrig: (contd)

didn't reach the purchasing power of 1979-80 until 1986-87. However, the 1985-87 biennium was our signal that this State was willing to fund both excellence and access for higher education.

Once the momentum was created, the 1987-89 biennium arrived with no growth and some decline, but Ohio State considered this to be a temporary lull. The University decided to sustain the momentum through expanded cost containment and reallocations that continued to fund new and expanded expectations and kept tuitions as low as possible. However, as you can see, the 1989-91 biennium continues this flat support in constant dollars when we project a 6 percent rate of increase in operating costs, as did the Board of Regents. What this means is that since Ohio State can no longer continue its past levels of internal reallocations; we must temper, not our expectations, but the rate of support for these expectations to keep within our levels of available funding.

Let us also look at the increases in tuitions over the same period. You can see how Ohio State has been addressing access by holding tuitions below the State levels assumed in the subsidy models. For 1989-90, even with the recommended increases, Ohio State would still have to increase undergraduate instructional fees 19 percent to reach the Regents' fee assumptions, 68 percent to reach the graduate, and 43-69 percent to reach the professional tuition assumptions. These represent significant losses of potential revenue that this University does not have available with the tuition cap on undergraduate instructional fees imposed by the General Assembly. Our plan was to utilize this and the next biennium to close the tuition gap and help continue the rates of progress; however, for the undergraduate instructional fee, that option is no longer available. Other universities in Ohio appear to have made the correct decision when they kept their tuition increases at the State assumed levels.

This level of state support combined with comparable rates of tuition increases would have presented an excellent budget for a university satisfied with the status quo. Ohio State's problem is that the status quo is unacceptable; therefore, our challenge is to find ways over this biennium to continue the enhancement of excellence with reasonable tuitions and limited resources.

Total budgeted resources are $1,080,290,000, of which $1,018,800,000 is the Columbus Campus (94.3 percent); while budgeted uses are 1,079,950,000 in total, $1,018,690,000 on the Columbus Campus.

Amb. Wolf:

May I ask a question? Do you relate these figures to the first two charts that you showed us? For example, you had $250 million from the State?

Mr. Ihrig:

That was instructional subsidy which is included in this state appropriation number which includes instructional subsidy, as well as the line items they give us.
1989-90 BUDGET PRESENTATION (contd)

Amb. Woll:

O.K. That takes care of that one. The second one, you had 50,000 students times $3,000 -- is that where you get the $150 million?

Mr. Ihrig:

$158,000 is the tuition paid by the students and remember some of the students are part-time as well as full-time.

Amb. Woll:

So, it averages $1,900 a student?

Mr. Ihrig:

It varies because in this budget the undergraduate students would pay --

Amb. Woll:

So, the previous chart was just for the undergraduates?

Mr. Ihrig:

That's right. That was only for undergraduate tuition. Professional and medicine were not included.

Mr. Berry:

And out-of-state students?

Mr. Ihrig:

Out-of-state students were not included.

Mr. Kessler:

Other resources such as private gifts and grants of $61 million, and an endowment of $10 million, what is the private gifts? That is not Tobin's area is it?

Mr. Ihrig:

It is part of that. Those are private gifts that are given for current funds uses that don't go into endowment principle, as well as grants from private businesses to do research. They are combined in private gifts and grants.

Mr. Teaford:

It tends to be the small gifts, right?

Mr. Ihrig:

They are beginning to get larger now.
Mr. Kessler:

$61 million is a large number.

Mr. Berry:

$61 million is just in annual gifts?

Mr. Ihrig:

Annual giving for grants that come from private enterprise to do research by the faculty of the University. There are contract and grants in there as well as by giving by individuals, and corporations and foundations.

Ms. Casto:

Those are restricted right, usually, not just general --

Mr. Ihrig:

Usually, it is all restricted for the most part. There are some that are --

Mr. Teaford:

But not very much of that would be contract grants would it? Because most of the contract grants are up in the top --

Mr. Ihrig:

No. Those up here are from federal government, state government, and county and city government. These are private corporations. And that is a growing area.

Dr. Hollander:

It's over $10 million now.

Mr. Teaford:

It is the $10 million of the $65 billion --

Amb. Wolf:

Can you pick out of those figures how much is going in for research. I would presume --

Mr. Teaford:

He said $10 million.

Amb. Wolf:

But the $102 million from the federal government --
1989-90 BUDGET PRESENTATION (contd)

Mr. Ihrig:

Yes. Because the federal government grants and contracts would also include financial aid monies that come in directly through the University, as well as the sponsored research.

Dr. Hollander:

It is $130 million in sponsored research.

Mr. Ihrig:

We also put money in from inside the University.

Amb. Wolf:

How much is that?

Mr. Ihrig:

That's running now close to $20 million a year, in that range.

Amb. Wolf:

OK. So it is $150 million worth of research in this budget -- 15%.

Mr. Ihrig:

For directly identified research.

President Jennings:

The other thing you might point out is that the $10 million in endowment income is not the endowment income that Jim reports. It is endowment income that is planned to be distributed.

Mr. Teaford:

Some of the money he reports gets reinvested.

President Jennings:

That is right.

Mr. Ihrig:

Now page four breaks this down into three major components of this budget. Those are the general funds, which are the basic funds within the University that support the colleges; the academic support areas such as the libraries, computer centers and the utilities that go with those areas; and the administrative support areas. The earnings operations are the residence halls, athletics, bookstores, anything that charges a fee for its activities. The restricted funds will be those funds in which
Mr. Ihrig: (contd)

external agencies or individuals give us money in contract with us, and they define the use of those funds. There is also the State money in here that are line item budgeted in the State approved budget. You will find private gifts and contracts that are restricted in here.

So the general funds for the University total $476 million and then we have another $350 million in the earnings operations and $255 million in restricted funds. The interesting thing on this budget, when you look at the percentage trends here, the funding is down slightly in earnings and the general funds, while our restricted funds are up. That is basically because of the related State support and the tuition areas tightening in this budget, and the earnings operations pressured to operate efficiently and to keep the costs down. We are out actively pursuing increasing the restricted fund category to fill in those gaps.

President Jennings:

That restricted fund is a reflection of these young faculty being brought in here and getting more and more high level research grants and increasing that $150 million.

Amb. Wolf:

But, if we compare our budget to our peer institutions, do they all include all their operations -- the hospital operations? We have about $200 million for the Hospitals, when we compare budgets for budgets, do we purify the comparisons?

Mr. Ihrig:

Yes. The large research institutions will mostly compare on the total dollar basis and those that have hospitals will include them. Now there will be other comparisons that will take it upon the basis of general funds column and try to look at the core academic activities of the University, rather than the total budget. So they compare it both ways.

President Jennings:

That is one of the reasons most of our comparisons are done consistently with the big research universities that also happen to have medical schools. Some of this stuff is very difficult to separate out.

Mr. Teaford:

Well, there is an awful lot of instructional in that $200 million.

President Jennings:

That is not only just instruction for medicine, but it is also for nursing, pharmacy, engineering, allied medicine, and all sorts. That's why a comparison to say Michigan or the University of Iowa is more relevant than a comparison to Purdue. Purdue doesn't have the medical complex. But, Joel, that is why you see consistently total budget comparisons to places with medical complexes. It is exactly the reason,
President Jennings: (contd)

because you can't separate that out as to what is going on in the hospital, just as you can't separate out say totally in agriculture its impact on the rest of the campuses.

Mr. Ihrig:

The general fund of the University for the Columbus Campus is up to $452.4 million. That increase over last year is $31.4 million. I thought you might like to look at what that increase is being used for. Personnel salaries and benefits is $19.9 million, making up 63 percent of that increase. And the salary guidelines are even restricted this year in their magnitude. I am personally very concerned about our competitive position among faculty in the Big 10 and elsewhere. Over 63 percent is being used here. Utilities and bringing on new facilities that have been under construction is $3.6 million or -- this is just the general fund, it does not include the Cancer Hospital. This is all for academic buildings, such as Lazenby, Enarson Hall, and this is getting those fully operational now.

Mr. Teaford:

But that doesn't have anything to do with the cost of building at all?

Mr. Ihrig:

No. This is the operational costs. It would include those as well as bringing on the Wexner Center and all of those facilities that have been through renovation or under construction that support the academic core of the University. So you've got another 11.5 percent of the budget there. Eleven percent is going toward enhancements for student aid to adjust for the new expenses including our own tuition, as well as fee authorizations for graduate students who are using the research labs and in the classroom. Academic Challenge is another 7.2 percent. That is where the State gives us one percent of the instructional subsidy to apply to already excellent programs to help improve them further. I will come back to that one later. Library support is expanded by almost $1.6 million and making that a recurring expense where we have been using one time funds in the past. We are trying to compensate for the high cost of book prices and journal prices, especially the international articles that the libraries are trying to acquire. We have an exchange rate problem that is working against us now that use to work for us. Finally, we are increasing the internal research support of the University by $700,000.

Mrs. Bowser:

So, when you talk about controlling costs you are talking about these items?

Mr. Ihrig:

Yes.

Mr. Teaford:

This is the way we are spending the new money.
Mr. Ihrig:

This is the new money. But it is part of the control of costs. You either have to take the base and lower the costs of some things we have been doing so the increases aren't as high, and reallocate those funds to do new ventures, or we have to limit the rate of increase here.

The benefits includes the 40 percent increase in health insurance benefits. Even though the faculty and the staff are paying 15 percent. We are looking at this as a very uncertain market, this is with the real costs of benefits. After being burned two years in a row of coming from behind and having to eat our reserves, we are still budgeting in the total expense to the University. Now, if the costs have dropped and we don't use that total budget, the first call on those funds will be to replace the reserves that we depleted to get through the last two years of underestimating. So now we have to rebuild the reserves so we are ready for the next time.

Mrs. Bowser:

How much were they depleted?

Mr. Ihrig:

They were depleted by around $12 million.

Mrs. Bowser:

So you are going to get back to $12 million?

Ms. Casto:

There is a lot more savings expected than that, right?

Mr. Ihrig:

No. The savings on an annual basis in the first year when they are fully realized would be somewhere around $4 - $5 million. It doesn't happen in one year.

Amb. Wolf:

I am looking at the library -- how does our library rate nationally as far as the number of volumes?

Mr. Ihrig:

The latest figures show that in comparison with the Big 10, we rank 8th in terms of the extent of expenditures of the current funds budget. And that is one of the reasons that we are having to invest in the libraries, in order to bring that rating up.

President Jennings:

We should also point out that we are 8th in the Big 10, but we are 16th in the nation.
July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

Amb. Wolf:

We are 16th in the nation?

President Jennings:

Yes. The point that I'm trying to make is the Big 10 comparison -- that is the major comparison in terms of the number of volumes.

Amb. Wolf:

Sixteenth in the nation is pretty good.

President Jennings:

Very good. That is why when you make your comparisons of the Big 10, you are comparing to the major universities in America. So you've got roughly those 10 institutions plus the five that are now in there and so forth. But in the Big 10 we have fallen behind a bit and have not made that commitment.

Mr. Teaford:

Eighth among our peers is not good.

Mr. Scott:

There are two questions. One has to do with the expenditure and one has to do with volumes. I'm not sure that we are eighth in volumes?

Mr. Ihrig:

I don't know where we rank on volumes.

Mr. Scott:

We are probably third or fourth.

President Jennings:

Sixteenth in volume nationally. We can find out where we are among the Big 10.

Dr. Hutchinson:

I think one of the big issues is whether we are getting into the new acquisitions. There are a lot of new journals that relate to our new faculty and we've got to be sure that we are getting those kinds of volumes into our libraries.

President Jennings:

One of the things that you will see this afternoon in terms of the capital budget, you are going to see a long-term, huge $100 million plus item for libraries, into the '90's as a capital expenditure. And we are of course building a facility right now --
Mrs. Bowser:

That isn't going to answer to this -- more space. You have to fill the space up. I think Fred's point is well taken and also what Weldon says -- the foreign journals must really be a drain on the budget now because of the exchange.

Mr. Ihrig:

Yes. Because the exchange rates were in our favor in the early '80's, there was a level of expectation set up. All of a sudden the exchange rates shifted and became less favorable, but the expectations are still there. Again, it is that area of expectations and now the costs are far exceeding those. So, that is the reason we are having to move more money and we are trying to develop an index that will cover pits and valleys on this.

Mr. Teaford:

What are our total library budgets, that's not it --

Mr. Ihrig:

No, that is an increase to their acquisition budget, not to their personnel.

Mr. Teaford:

What is the total acquisition budget?

Mr. Ihrig:

I don't have that number with me.

Amb. Wolf:

Is it in the book here someplace?

Mr. Ihrig:

No. Because we are putting together this budget at the last minute, it still is only details, but the details have not gotten in your book.

Mr. Teaford:

Do you have a sense of how much of that is truly acquisition and how much is just keeping up our subscriptions? By percentage?

Mr. Ihrig:

I can't give you a percent on that, Joel. The heavy pressure now is on subscriptions and journals, not on individual books. And that has been putting heavy pressure on the library. It is for all libraries on campus.
President Jennings:

But the questions you are asking is why in a very tight budget we are still putting a $1.5 million in the library for --

Mr. Teaford:

But it is easy to see that you've got to do it.

Mrs. Bowser:

Are we going back here to Academic Challenge?

Mr. Ihrig:

Yes, I am showing here an additional $2.3 million. That is the amount the State designates -- 1% instructional subsidies that was budgeted in. This is the third biennium of Academic Challenge. It is the fourth for Ohio State, because this University started doing Academic Challenge internally as a concept and the State caught on to it and started funding it. The concept was that the State would provide an additional 1% of the instructional subsidy for commitments on a continuing basis. These are not one-time funds, they are continuing. What has happened is the first biennium monies were provided two biennia ago. Due to this leveling off of monies, the State budget has not been fully funded for two biennia as requested by the Regents. Therefore, the continuation costs of Academic Challenge have not been funded and we are having to eat those -- if I may use the raw term-- out of our basic budget dollars. This year of the biennium adds $4.95 million to this number -- it takes it up to about $7.3 million -- that we are supporting in those Academic Challenge initiatives covering the two biennias ago, as well as the new one coming in that we are funded for. Next year that goes up to $5.2 million in the budget.

Mr. Teaford:

You are saying we are obligated to the State to do that even though they aren't going to pay for it?

Mr. Ihrig:

Yes.

President Jennings:

No, I don't think we are obligated to the State. We are basically obligated to ourselves.

Mr. Ihrig:

But also in agreeing to take the money, we are obligated.
President Jennings:

What he is saying is this State appropriation is $7.9 million short of what was expected when the Academic Challenge was begun.

Mr. Ihrig:

So that is another reason why this budget is very, very tight. On page six of the budget you are presented a summary of the sources of funds. State appropriations are at 31.4 percent in this budget. They have been over 32 percent in the past when we were in the good years and things were improving. The students are paying over 15 percent. This gives you a share of the budget coming from the various sources.

Let's move to the actual impact on student tuition. This chart below shows the fees on an annual basis of which the undergraduate students will be paying $2,190 for three quarters. This is made up of the $120 increase that has been capped by the State for the instructional fee, plus the general fee -- which is an integral part of the tuition we charge -- of a $30.00 increase. Together they represent a 7.4 percent increase. We have increased the general fee at the same relative proportion as the $120.00 represents as a percent increase. So the total impact to the undergraduate students is 7.4 percent. If we could have gone to the Board of Regents' assumed level, that would have been $2,100. The instructional fee assumed in the State budget is $2,100, versus the $1,764 instructional fee being recommended.

This budget is extremely difficult in that we must recommend tuition increases much higher than recent years. Non-resident undergraduate increases 11.6 percent. Graduate tuition increases 14.8 percent, while professional tuition increases 13 to 15.3 percent.

Mr. Teaford:

The rational for the non-residents paying more is that they don't pay state taxes that give us our state subsidy.

Mr. Ihrig:

That is correct.

President Jennings:

And further, Joel, we get no subsidy for the out-of-state student. What Weldon is recommending is bringing that tuition to the equivalent level of in-state tuition plus subsidy. That is the theory there, that is tuition plus subsidy.

Mr. Teaford:

The assumption there is that in-state people are paying taxes that cause the subsidy to happen. So that is why --
Mr. Ihrig:

Overall, undergraduate resident students will pay 6.8 percent more to attend Ohio State, live and park on campus, as well as purchase books. Graduate resident students will pay 10.3 percent more this year.

Ohio State's earnings operations rates will increase 5.7 percent on a weighted average basis. When tuitions are added, the composite rate increases to 6.9 percent.

We are recommending the 1989-90 Current Funds Budget for your approval, and I'll be glad to respond to your questions.

Amb. Wolf:

This is the operating budget, what is the capital budget for this year?

Mr. Ihrig:

That is a biennium budget and we are in the mid-year of the biennium on that. We received from the State of Ohio just around $100 million at the start of the last biennium for capital expenditures. So we are in the process of expending that. Those are on a project basis. I would have to get you that number.

Mr. Teaford:

Because we also have capital expenditures that are not in this one, in addition to that $100 million. The Cancer Center and the Wexner Center would be two examples.

President Jennings:

Cancer Center, Lazenbee, and Enarson Hall.

Mr. Ihrig:

Over the next six years we are projecting expenditures of around $800 million, of which $500 million will be requested from the State.

Amb. Wolf:

But for this biennium, this two years, you have $100 million from the State for capital?

Mr. Ihrig:

Yes.

Mr. Teaford:

Which if those averages are right, our total capital budget is in the $150-$160 million.
July 7, 1989 meeting, Board of Trustees

1989-90 BUDGET PRESENTATION (contd)

Ms. Paige:

I would like to ask a question. I think my main concern right now, after looking over the budget, is just the basic attitude that graduate and professional school students can afford a 15 percent increase. Just looking at the progression of our society, we're saying that more people are going to have to be enrolled in graduate and professional schools just looking at the trend of technology. However, we are increasing tuition at such a rate where the common student is not going to be able to afford this tuition. So on one side of the story we are increasing the undergraduates who are going to be competent to enroll in graduate and professional school, but on the other side of the story we are increasing the graduate and professional students' tuition to such an extent that the transition is not going to be able to be made. I guess in my mind I cannot understand why we are not as concerned about keeping the in-state graduate and professional students' tuition as low as we are keep the undergraduate tuition.

Mr. Ihrig:

Our goal would be to try to and keep that as low. It is interesting, at one time back in 1970-71 the two tuitions for in-state graduate students and in-state undergraduate students were exactly the same. The problem is funding. The state models assume that the students at the graduate and professional levels are going to take a greater share of the total cost of their instruction and pay that themselves. All we are able to do at this point, unless we are going to move money from undergraduate revenues and support graduate students to a greater extent, is we have to then, based on the funding sources, put that burden on the students in order to keep the quality programs available. If we cut the programs too drastically, then we won't offer the quality programs that the graduate students and professional students are looking for. So we are caught in a box in that the State assumptions are exactly what you said, unfortunately, that the students should pay a greater proportion.

Mr. Teaford:

You showed us the State assumptions for undergraduates and how we were significantly lower. How do we relate to the State assumptions for graduate students?

Mr. Ihrig:

It was 68 percent. We would have to increase undergraduate instructional fees 19 percent to reach the State assumptions. We have to increase the graduate fees 68 percent to reach State assumptions.

Mr. Teaford:

So, in fact, we are even better -- relative to that measure, which may not be a fair one -- for graduate students than we are for undergraduate students.

President Jennings:

There is another issue here, too. On one of the previous charts, if you noticed, it showed $3.4 million of student financial aid. In this budget there are sufficient
President Jennings: (contd)

increases in student financial aid to do two things: to accommodate all the increases, and to accommodate those students who become eligible for student aid because of the increases. So in this we continue the policy of the double stool of accessibility of modern tuition but financial aid as well. A great deal of that financial aid is going to go right back into the graduate and professional area as these increases take place. The other thing, as Mr. Teaford pointed out, is that we are further below the State assumptions on the graduate level than we are on the undergraduate. This is bringing that closer. This is one of the objections we have got to State funding. The State funding, while much improved, is a funding process that does not reward, indeed, penalizes those institutions who keep their tuitions low. As I pointed out, our budget would be $34 million higher if we did what the State was instructing us to do. But by keeping our tuition low, we are shortchanging ourselves.

Mr. Teaford:

Also, it reflects that unfortunately the State has the view that -- as Paige is criticizing -- that we don't need a bunch of people beyond the undergraduate degree level. That is wrong, but that is their clear message.

President Jennings:

That has been the message for many years. Remember the national college going rate is 53 percent -- high school to college. The Ohio college going rate is 43 percent. We are among the lowest college going rates in the United States. But, there is some recognition of low tuition institutions in this by making it at 6 percent or $120.00. Very little. That 6 percent -- that tuition increase there, again, had we, over the last several years, been with the State the percentage increase wouldn't be as great, but the dollar increase would be greater than it in fact is now. That is part of the difficulty here. We expected that the State would continue to join us in partnership with keeping accessibility. That is not happening.

Mr. Teaford:

The graduate school, because of the high percentage of students getting aid, we are really hitting the middle class in graduate school. That is who is really getting burdened, the ones who are just above the scholarship level abilities.

President Jennings:

A great many graduate students, -- of course, not so much with professional students -- but a great many graduate students are supported by research grants or things like that.

Mr. Kessler:

Any further questions?
I. INTRODUCTION

In June 1989, this Board approved a Provisional Budget enabling the University to initiate operations for the 1989-90 Fiscal Year. The provisional budget was adopted in accordance with the planning guidelines presented at that meeting. Budget legislation for the 1989-91 biennium has now been passed by the Ohio General Assembly. Therefore, the University 1989-90 Current Funds Budget can be recommended to the Board of Trustees.

The amount of instructional subsidy is critical in establishing Ohio State's position among the major research universities in the nation. Instructional subsidies account for approximately 58.5 percent of the University's general fund, the primary support for the academic core and related support activities. These resources also provide the foundation for continued growth in sponsored research and development monies. The actions by the Ohio General Assembly have provided a substantial increase in the instructional subsidies over the level recommended by the Governor's budget request, sustaining the upward trend begun two biennia ago.

However, to measure the impact on excellence and student tuitions, we need to look at the resource trends in relation to their real purchasing power over the decade of the 1980's. When using constant dollars, the real purchasing power of the instructional subsidies declined from 1979-80 through 1982-83 and did not return to the 1979-80 level until 1985-86. Funding for fiscal year 1985-86, combined with new support in 1986-87, created a biennium of real growth, allowing Ohio State to make significant progress in promoting excellence and holding down increases in student tuitions. Then, just as these new expectations were being realized, the real value of state support not only leveled off but declined during the 1987-89 biennium. Progress was sustained only through cost containment and reallocations of $12 million in recurring dollars each year of the biennium. As we now begin the new biennium, 1989-90 provides us some gain, but by 1990-91 purchasing power of instructional subsidies are again expected to decline.

In addition to not making real progress in the growth of the instructional subsidy, since 1979-80 revenues from student tuitions have not matched state assumptions. During this period, Ohio State has kept student tuition increases below those assumed in the state budgets. As a result, current undergraduate tuitions at Ohio State would need to be raised 21 percent to reach the State assumed levels. The $120 per year cap on increases in undergraduate instructional fees does not enable Ohio State to pursue closing this gap in undergraduate tuitions as quickly as was planned.

Ohio State is not willing to compromise on excellence. Yet, over the past decade, the combined effects of major progress toward enhanced excellence and national recognition, student tuitions that are well below the State assumed levels, and annual internal reallocations to support new and expanded initiatives have taken their toll. While we will continue to hold down costs, we can no longer advance within the current levels of State funding without moving tuitions closer to the State assumed levels. Such action is taken reluctantly, with grave concern for the impact on our students. However, the faculty and staff are also sacrificing through lower levels of salary adjustments as well as paying part of the costs of their health insurance premiums.

Commitments to excellence remain in all areas of teaching and research as well as the related support and service activities. However, our rate of progress must be tempered as we take actions to keep within the level of resources provided by the State budget for the biennium 1989-91. These actions will require that Ohio State not only continue to reallocate resources, but challenge all areas to search for ways to reduce costs even more, which will include the
evaluation of whether all activities being performed are relevant within today's available resources.

II. SOURCES OF FUNDS

Current Funds Budget Resources proposed for 1989-90 total $1,080,290,000, as summarized by funding source in the Budgeted Resources. This amount includes State support totaling $339,640,000, which represents 31.4 percent of the total resources budgeted. Other major sources of income include student tuitions, 15.6 percent; government grants and contracts, 12.9 percent; and hospital sales and services at 20.6 percent.

The core instructional and general budgets of the University—Unrestricted General Funds—are budgeted to have resources of $475,930,000, which amounts to 44.1 percent of total resources. Earnings operations, which include activities such as University Hospitals, Residence Halls, and Athletics, are budgeted to bring in $349,890,000, which accounts for 32.4 percent of total resources. The remaining 23.5 percent of resources is in the restricted fund group which includes sponsored research projects, most private gifts, and such State-funded line-item activities as the Ohio Cooperative Extension Service and the Ohio Agricultural Research and Development Center.

The recommended tuition rates for both residents and non-residents of the various colleges and schools are shown in the Student Fee Schedules. In the past, Ohio State's tuition increases have been considerably less than those assumed in the state's instructional subsidy appropriation. In 1988-89, Ohio State's annual undergraduate tuitions were 351 dollars below the State assumed levels. For 1989-90, this University's plans were to begin to reduce this gap through a series of increases over three to four years. However, the General Assembly has mandated a tuition cap of $120 on resident undergraduate instructional fees, in essence penalizing the University for minimizing past fee increases. As a result, this budget includes the recommended increase in the resident undergraduate instructional fee of $120 on an annual basis. In addition, general fees are recommended to increase $30 per year.

Since the gap between the fee assumptions and Ohio State's tuition charges is even greater for graduate and professional instructional fees, increases in these fees are being recommended for a net increase, including general fees, of 13 to 15 percent. These fees are expected to remain below the average within the Big Ten, with medical and dental student instruction fees still falling below national averages.

The review of tuitions charges for non-resident students indicates that the fees for undergraduate, graduate, and professional non-resident students continue to fall short of the targeted three-to-one ratio. Therefore, the non-resident surcharge for undergraduate students is recommended to increase 14 percent to continue the trend toward the three-to-one goal. However, due to the large increases in the graduate and professional instructional fees, non-resident surcharges for these students are recommended to increase the same percentage as their resident fees for 1989-90.

In addition to the changes in instructional and general fees, increases in some admission application and acceptance fees are being recommended. All domestic admission application fees except those for graduate students are being recommended to be set at $20 versus the $15 and $10 currently charged. Acceptance fees for all undergraduate students as well as domestic graduate students are recommended to be $50, with professional students at $25. Overall, the
July 7, 1989 meeting, Board of Trustees

Background (contd)

1989-90 CURRENT FUNDS BUDGET (contd)

recommended fee changes place Ohio State in a competitive position with other universities while increasing the incentive to receive only thoughtful applications and intentional acceptances. These changes are the recommendations of the University's Council on Admissions and Registrations, which is composed of faculty, students and staff.

A major revenue source for the University continues to be the sales and services of the earnings units. As a result of continuing efforts to monitor and limit increases in all fees and charges of the University, the average increase in all University rates and charges will be just under 7 percent. The weighted average of only the earnings operations has been held to 5.7 percent, with Athletics and Traffic and Parking proposing average rate increases of slightly over 3 percent. Just as general funds units may institute internal reallocation methods to fund some desired programs, earnings operations retain the same option.

III. USES OF FUNDS

As detailed in the schedule and supporting documents of budgeted uses for Fiscal Year 1989-90, the University's planned expenditures from current funds total $1,079,950,000. This level of recommended Current Funds expenditures will support the following budget planning guidelines reviewed with the Board of Trustees at the June 2, 1989, meeting.

* Increase faculty, administrative and professional, and classified staff salaries by $480 per year and provide 2 percent in salary funds for selective merit increases, with a pool of $1.3 million available on a competitive basis for equity, excellence and market adjustments.

* Fund compensation increases for negotiated wage settlements.

* Provide funding to maintain the purchasing power of University-funded student financial aid, plus cover new students who may qualify with increases in tuition.

* Provide resources to meet mandatory cost increases, such as utilities and employee benefits.

* Provide an additional $1.5 million for library book acquisitions.

* Fund previous commitments such as the Young Scholars Program, curriculum enhancement, and the Wexner Center operations.

In addition, each college and office is being requested to define one percent of their 1989-90 budgets for reallocation. This action to lower costs and eliminate low priority activities and services will provide resources which will remain within the colleges and offices to address their highest priority needs.

This balanced budget for 1989-90 is being presented for Board of Trustees approval.
July 7, 1989 meeting, Board of Trustees

1989-90 CURRENT FUNDS BUDGET

Resolution No. 90-17

Synopsis: The Fiscal Affairs Committee recommended the approval of the budget for fiscal year 1989-90.

WHEREAS the levels of State support have been established with the enactment of budget legislation for the 1989-91 biennium; and

WHEREAS appropriate planning and consultation within the University have been accomplished; and

WHEREAS this Board approved a provisional expenditure budget for 1989-90 at its June meeting which is the basis for this budget for 1989-90; and

WHEREAS the President is now prepared to present the final 1989-90 budget:

NOW THEREFORE

BE IT RESOLVED, That the University Current Funds Budget for Fiscal Year 1989-90, as described in the accompanying text and tables, be approved, with authorization for the President to make expenditures within the projected income levels; and

BE IT FURTHER RESOLVED, That student fees be increased for all students beginning Autumn Quarter 1989, as specified in the Schedule of Student Fees incorporated in this resolution effective Autumn Quarter 1989; and

BE IT FURTHER RESOLVED, That the Secretary be instructed to incorporate all supporting documents into the minutes of this meeting, salary rolls with promotions, authorizations to purchase an annuity for Jack M. Hollander and to purchase retirement credit for David P. Mayers, and fees and charges for the Fiscal Year 1989-90, and to file these materials with the official records of the University.

Mr. Berry:

Before I ask for a motion on the President's budget recommendations, I would like to make the following report. On July 7, the Personnel Committee of this Board met to review the President's salary and to develop a recommendation for consideration by the entire Board. It is the Committee's conclusion that the President has continued to carry out his responsibilities in a manner consistent with the high expectations and ideals of the University. The role of a CEO is not an easy one, particularly in a major public educational institution. To manage and balance the many diverse interests, and to minimize the inherent conflicts necessarily associated with the University, is a splendid achievement.

Recognizing the President's contributions to this institution and recognizing the current financial condition of the University, the Committee recommends that the President receive a salary increase of 5 percent for the fiscal year ending June 30, 1990. The Secretary of the Board is hereby authorized and directed to develop the appropriate documents to effectuate this change in salary.

May I now have a motion to approve the President's budget report and recommendations, as well as the Personnel Committee's salary recommendation for President Jennings?
Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Berry, Teaford, Barone, Kessler, and Wolf, and Mrs. Bowser, and a negative vote cast by Ms. Casto.

Ms. Casto:

I vote no for the same reasons I indicated at the last meeting.

(See Appendix V for the charts on The Ohio State University 1989-90 Current Funds Budget, page 129.)

--0--

Thereupon the Board adjourned to meet Wednesday, August 23, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

John W. Berry
Chairman
APPENDIX I

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
June 16, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees July 7, 1989
(See page 15)
Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>06-30-88</th>
<th>Percent of Equity and Fixed Income</th>
<th>06-16-89</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$38,004,379</td>
<td>18.55%</td>
<td>$35,131,237 (2)</td>
<td>14.31%</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>10,454,591</td>
<td>5.10</td>
<td>11,856,536</td>
<td>4.83</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,428,707</td>
<td>16.81</td>
<td>32,186,414 (3)</td>
<td>13.11</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>17,462,592</td>
<td>8.53</td>
<td>13,756,362</td>
<td>5.61</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>33,282,385</td>
<td>16.25</td>
<td>78,209,711</td>
<td>31.86</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$133,632,655</td>
<td>65.24%</td>
<td>$171,140,260</td>
<td>69.72%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatmen’s Trust (1)</td>
<td>$21,547,467</td>
<td>10.52%</td>
<td>$23,192,412</td>
<td>9.45%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>921,925</td>
<td>0.45</td>
<td>940,949</td>
<td>0.38</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>22,300,069</td>
<td>10.89</td>
<td>23,588,799</td>
<td>9.61</td>
</tr>
<tr>
<td>OSU - GWA</td>
<td>9,954,372</td>
<td>4.86</td>
<td>10,045,865</td>
<td>4.09</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,502,840</td>
<td>3.17</td>
<td>6,456,142</td>
<td>2.63</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$71,210,234</td>
<td>34.76%</td>
<td>$74,343,078</td>
<td>30.26%</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td>$204,842,889</td>
<td>100.00%</td>
<td>$245,483,338</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$43,089,186</td>
<td>100.00%</td>
<td>$36,466,844 (4)</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$247,932,075</td>
<td>100.00%</td>
<td>$281,950,182</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

(1) Formerly Centerre Trust.
(2) Commitment was reduced by $7,500,000 as of May 31, 1989.
(3) Commitment was reduced by $7,500,000 as of May 31, 1989.
(4) Real Estate reported at most recent appraised value.
### Simulated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value June '88 to June '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.58%</td>
<td>14.32%</td>
<td>17.90%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.69%</td>
<td>15.95%</td>
<td>17.64%</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>4.58%</td>
<td>17.74%</td>
<td>22.32%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>2.94%</td>
<td>17.81%</td>
<td>20.75%</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>5.32%</td>
<td>10.26%</td>
<td>15.58%</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.78%</td>
<td>18.72%</td>
<td>22.50%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>4.37%</td>
<td>-0%</td>
<td>4.37%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fixed Income:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonds (Boatmen's Trust, formerly Centerre Trust)</td>
<td>8.40%</td>
<td>5.15%</td>
<td>13.55%</td>
</tr>
<tr>
<td>Bonds (Cambridge)</td>
<td>8.73%</td>
<td>1.54%</td>
<td>10.27%</td>
</tr>
<tr>
<td>Bonds (Duff &amp; Phelps)</td>
<td>8.85%</td>
<td>2.24%</td>
<td>11.09%</td>
</tr>
<tr>
<td>Bonds (SIW Fixed Income)</td>
<td>9.22%</td>
<td>8.06%</td>
<td>17.28%</td>
</tr>
<tr>
<td>Bonds (OSU - GNMA)</td>
<td>9.94%</td>
<td>2.00%</td>
<td>11.94%</td>
</tr>
<tr>
<td>Bonds (OSU Managed)</td>
<td>8.55%</td>
<td>(0.38)%</td>
<td>8.17%</td>
</tr>
<tr>
<td>Merrill Lynch Corporate/</td>
<td>8.90%</td>
<td>3.12%</td>
<td>12.02%</td>
</tr>
<tr>
<td>Government Master</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. 2.7% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.2%.
2. 1.9% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.6%.
3. 45.6% of Siebel portfolio is made up of cash and cash equivalents which earn 9.3%.
4. 64.0% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.5%.
5. 6.0% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.2%.
6. 4.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.6%.
7. 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.6%.
8. 0.9% of SIW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.6%.
9. 0.6% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.6%.
10. 92.8% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 8.6%.
11. Not able to compare 12 months.
13. Income from University Cash Investments through June 30, 1989, totaled approximately $14,408,000.

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>Percent of Portfolio</th>
<th>06-16-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-88)</td>
<td>$247,932,075</td>
<td>Equities</td>
<td>$105,213,770</td>
<td>37.32%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>13,883,029</td>
<td>Fixed Income</td>
<td>66,478,444</td>
<td>23.58%</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(166,410)</td>
<td>Real Estate</td>
<td>36,358,000</td>
<td>12.89%</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>20,301,488</td>
<td>Cash</td>
<td>73,899,268</td>
<td>26.21%</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$281,950,182</td>
<td>Total Portfolio</td>
<td>$281,950,182</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

107
### Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Real Estate

**Sale**

House and .23 acres of land at 760 Beautyview Court, Columbus. Sales price is $114,500.*

<table>
<thead>
<tr>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>$100,000</td>
</tr>
</tbody>
</table>

* Gift.
### Common & Preferred Stock

#### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>Applied Biosystems, Inc.</td>
<td>Nicholas-Applegate</td>
<td>38.1562</td>
<td>$30,525.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>4,300</td>
<td>Motorola, Inc.</td>
<td>&quot;</td>
<td>57.5387</td>
<td>$247,674.50</td>
<td>$2,752.00</td>
</tr>
<tr>
<td>5,600</td>
<td>Transco Energy Co.</td>
<td>&quot;</td>
<td>43.6133</td>
<td>$244,570.70</td>
<td>7,616.00</td>
</tr>
<tr>
<td>13,000</td>
<td>Lancaster Colony Corp.*</td>
<td>OSU</td>
<td>21.6250</td>
<td>$281,125.00</td>
<td>8,840.00</td>
</tr>
<tr>
<td>70</td>
<td>Limited, Inc.*</td>
<td>&quot;</td>
<td>31.8126</td>
<td>2,226.88</td>
<td>16.80</td>
</tr>
<tr>
<td>10,000</td>
<td>Fireman’s Fund Corp.</td>
<td>Siebel</td>
<td>35.5000</td>
<td>$355,600.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Norton Co.</td>
<td>&quot;</td>
<td>50.6880</td>
<td>$507,480.00</td>
<td>20,000.00</td>
</tr>
<tr>
<td>3,500</td>
<td>United Airlines Corp.</td>
<td>&quot;</td>
<td>119.9480</td>
<td>$420,063.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

$2,089,265.08 $43,224.80

* Gift.
The Ohio State University
Common & Preferred Stock

Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) on Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,500</td>
<td>Hachinger Co., Cl. A</td>
<td>Chicago</td>
<td>17.7500</td>
<td>$ 168,625.00</td>
<td>$ 14,250.00</td>
</tr>
<tr>
<td>327,326</td>
<td>Neuburger Berman Energy Fund</td>
<td>Mutual Funds</td>
<td>19.9400</td>
<td>$ 6,526,869.13</td>
<td>$ 1,255,687.01</td>
</tr>
<tr>
<td>6,400</td>
<td>Novell, Inc.</td>
<td>Nicholas-Applegate</td>
<td>30.7020</td>
<td>196,492.80</td>
<td>20,082.96</td>
</tr>
<tr>
<td>3,700</td>
<td>Reynolds Metal Co.</td>
<td>&quot;</td>
<td>33.4360</td>
<td>197,484.60</td>
<td>26,649.12</td>
</tr>
<tr>
<td>4,700</td>
<td>Union Bank of San Francisco</td>
<td>&quot;</td>
<td>26.0284</td>
<td>122,333.50</td>
<td>(4,566.50)</td>
</tr>
<tr>
<td>3,300</td>
<td>Warner Communications, Inc.</td>
<td>&quot;</td>
<td>56.5962</td>
<td>186,563.26</td>
<td>68,517.76</td>
</tr>
<tr>
<td>50</td>
<td>Nevada Power Co.*</td>
<td>OSU</td>
<td>21.2500</td>
<td>1,050.46</td>
<td>0.46</td>
</tr>
<tr>
<td>250</td>
<td>Fidelity Magellan Fund*</td>
<td>&quot;</td>
<td>51.9900</td>
<td>13,004.73</td>
<td>(32.51)</td>
</tr>
<tr>
<td>5,500</td>
<td>Cooper Industries, Inc.</td>
<td>Siebel</td>
<td>32.2500</td>
<td>176,984.08</td>
<td>31,108.86</td>
</tr>
<tr>
<td>9,000</td>
<td>Holiday Corp.</td>
<td>&quot;</td>
<td>49.2900</td>
<td>443,055.21</td>
<td>196,956.21</td>
</tr>
<tr>
<td>3,000</td>
<td>Loews Corp.</td>
<td>&quot;</td>
<td>108.2630</td>
<td>324,568.17</td>
<td>187,179.54</td>
</tr>
<tr>
<td>9,500</td>
<td>Merck &amp; Co., Inc.</td>
<td>&quot;</td>
<td>69.1725</td>
<td>656,452.08</td>
<td>136,013.58</td>
</tr>
<tr>
<td>8,000</td>
<td>Morton Thiokol, Inc.</td>
<td>&quot;</td>
<td>45.7660</td>
<td>365,555.79</td>
<td>58,894.95</td>
</tr>
<tr>
<td>35,000</td>
<td>Primerica Corp.</td>
<td>&quot;</td>
<td>22.2780</td>
<td>777,254.00</td>
<td>(33,127.00)</td>
</tr>
<tr>
<td>7,000</td>
<td>Toys-R-Us, Inc.</td>
<td>&quot;</td>
<td>31.0000</td>
<td>216,502.76</td>
<td>60,975.76</td>
</tr>
<tr>
<td>6,500</td>
<td>Union Pacific Corp.</td>
<td>&quot;</td>
<td>73.0000</td>
<td>474,500.00</td>
<td>36,012.92</td>
</tr>
<tr>
<td>8,000</td>
<td>Wilmington Trust Co.</td>
<td>&quot;</td>
<td>35.5000</td>
<td>284,000.00</td>
<td>132,145.83</td>
</tr>
</tbody>
</table>

$11,345,488.42    $2,331,310.30

* Gift.
# Bonds

**Purchases Made During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>655,932</td>
<td>Federal Home Loan Mortgage Series 34-H 8.000% 03/15/20</td>
<td>Boatmen's</td>
<td>11.0155</td>
<td>11.1650</td>
<td>72.6250</td>
<td>$476,370.85</td>
</tr>
<tr>
<td>971,248</td>
<td>Government National Mortgage Assn. #2024 7.879% 05/01/17</td>
<td>&quot;</td>
<td>9.1883</td>
<td>9.3191</td>
<td>85.7500</td>
<td>832,844.75</td>
</tr>
</tbody>
</table>

$1,845,817.79
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>Chevron Corp.* 7.000% 04/01/96</td>
<td>OSU</td>
<td>90.5445</td>
<td>$3,621.78</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$3,621.78</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

* Gift.
<table>
<thead>
<tr>
<th>Description</th>
<th>Yield</th>
<th>Acquired</th>
<th>Inurred</th>
<th>Appraised Value</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.285 acres at 930 Kinnear Road</td>
<td>10.46</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,400,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>12.00</td>
<td>1984</td>
<td>825,000</td>
<td>1,900,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>10.47</td>
<td>1961</td>
<td>659,930</td>
<td>1,150,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>8.89</td>
<td>1971</td>
<td>1,320,695</td>
<td>2,500,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>3.18</td>
<td>1968</td>
<td>170,000</td>
<td>570,000</td>
<td>06/87</td>
</tr>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>.00</td>
<td>1971</td>
<td>106,793</td>
<td>137,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Hangar at Dom Scott Field (Loan)</td>
<td>.00</td>
<td>1973</td>
<td>31,997 (1)</td>
<td>31,997</td>
<td>N/A</td>
</tr>
<tr>
<td>Hangar addition at Dom Scott Field (Loan)</td>
<td>10.00</td>
<td>1978</td>
<td>76,947 (1)</td>
<td>76,947</td>
<td>N/A</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>.00</td>
<td>1986</td>
<td>190,000</td>
<td>250,000</td>
<td>10/87</td>
</tr>
<tr>
<td>51 acres of land, 2000 West Granville Road</td>
<td>.00</td>
<td>1962</td>
<td>160,585</td>
<td>2,762,000</td>
<td>06/87</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>.00</td>
<td>1972</td>
<td>344,395</td>
<td>4,124,000</td>
<td>06/87</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>.40</td>
<td>1968</td>
<td>310,558</td>
<td>6,472,000</td>
<td>06/87</td>
</tr>
<tr>
<td>30.539 acres of land, 3571 West Granville Road</td>
<td>.00</td>
<td>1971</td>
<td>265,079</td>
<td>2,596,000</td>
<td>06/87</td>
</tr>
<tr>
<td>32 acres of land, 3571 West Granville Road</td>
<td>.00</td>
<td>1986</td>
<td>2,078,646</td>
<td>2,720,000</td>
<td>06/87</td>
</tr>
<tr>
<td>12 acres of land, 3485 West Granville Road</td>
<td>.00</td>
<td>1965</td>
<td>24,000</td>
<td>1,020,000</td>
<td>06/87</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>.00</td>
<td>1968</td>
<td>17,114</td>
<td>727,000</td>
<td>06/87</td>
</tr>
<tr>
<td>Undivided one-half interest in building and</td>
<td>.65</td>
<td>1976</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>.65 acres at 3373 South Hamilton Road</td>
<td>.00</td>
<td>1966</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>20.908 acres of land on Ehrler-Ringe Road</td>
<td>.00</td>
<td>1978</td>
<td>241,848</td>
<td>950,000</td>
<td>05/88</td>
</tr>
<tr>
<td>17.92 acres of land on Ehrman Road</td>
<td>5.73</td>
<td>1976</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>5.67</td>
<td>1979</td>
<td>3,787,824</td>
<td>6,450,000</td>
<td>02/85</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>51,333,182</td>
<td>855,448,844</td>
<td></td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Solicitations
Date: June 30, 1989
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of June 1989, the University voted 8 proxies.

Management proposals were as follows:

1) Election of the directors;
2) Classify the Board of Directors;
3) Change the date and the time of the annual meeting;
4) Add the Chairman of the Board to the officers authorized to call special meetings of shareholders;
5) Approval of the independent auditors;
6) Approval of the corporate reorganization plan, along with the redistribution of common stock and the appropriate changes in the company's by-laws;
7) Approval of a 2-for-1 split of the outstanding common stock;
8) Approval of a merger of two independent concerns into one concern;
9) Approval of the 1989 stock incentive plan, effective upon consummation of the above merger;
10) Ratification of the 1989 Management Incentive Plan.

Shareholder proposals were as follows:

1) Election of directors annually.

The University voted for all management proposals and against the shareholder proposal, which management also opposed.
The 8 corporations were:

1) American Greetings Corporation
2) Comcast Corporation
3) Ennis Business Forms, Incorporated
4) McKesson Corporation
5) Morton Thiokol Incorporated
6) Oracle Systems Corporation
7) Rite Aid Corporation
8) Time, Incorporated
APPENDIX II

THE OHIO STATE UNIVERSITY ENDOWMENT FUND PROPERTY
June 20, 1989

Presented to the Investments Committee
(See page 15)
<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>YEAR ACQUIRED</th>
<th>ACQUIRED COST</th>
<th>YEAR APPRAISED</th>
<th>APPRAISED VALUE</th>
<th>FY-1989 YIELD</th>
<th>AVG. ANNUAL APPRECIATION</th>
<th>TOTAL RETURN</th>
</tr>
</thead>
<tbody>
<tr>
<td>930 KINNEAR ROAD</td>
<td>1962</td>
<td>$435,204</td>
<td>1989</td>
<td>$1,550,000</td>
<td>24.37%</td>
<td>4.82%</td>
<td>29.19%</td>
</tr>
<tr>
<td>1100 KINNEAR ROAD</td>
<td>1964</td>
<td>825,000</td>
<td>1989</td>
<td>2,650,000</td>
<td>12.00%</td>
<td>26.29%</td>
<td>38.29%</td>
</tr>
<tr>
<td>1900 KENNY ROAD</td>
<td>1961</td>
<td>659,930</td>
<td>1989</td>
<td>1,250,000</td>
<td>23.79%</td>
<td>2.31%</td>
<td>26.10%</td>
</tr>
<tr>
<td>1960 KENNY ROAD</td>
<td>1971</td>
<td>1,320,693</td>
<td>1989</td>
<td>2,500,000</td>
<td>19.69%</td>
<td>3.61%</td>
<td>23.30%</td>
</tr>
<tr>
<td>1991 KENNY ROAD</td>
<td>1968</td>
<td>170,000</td>
<td>1989</td>
<td>696,000</td>
<td>11.85%</td>
<td>6.94%</td>
<td>18.80%</td>
</tr>
<tr>
<td>DELAWARE COUNTY (WOSU)</td>
<td>1971</td>
<td>100,793</td>
<td>1989</td>
<td>641,000</td>
<td>3.17%</td>
<td>10.82%</td>
<td>14.00%</td>
</tr>
<tr>
<td>HARRISBURG PIKE</td>
<td>1986</td>
<td>190,000</td>
<td>1989</td>
<td>283,000</td>
<td>0.00%</td>
<td>14.20%</td>
<td>14.20%</td>
</tr>
<tr>
<td>2809 W. GRANVILLE ROAD</td>
<td>1962</td>
<td>160,265</td>
<td>1989</td>
<td>2,896,000</td>
<td>0.00%</td>
<td>11.32%</td>
<td>11.32%</td>
</tr>
<tr>
<td>3025 W. GRANVILLE ROAD</td>
<td>1972</td>
<td>544,398</td>
<td>1989</td>
<td>4,367,000</td>
<td>0.00%</td>
<td>13.03%</td>
<td>13.03%</td>
</tr>
<tr>
<td>3253 W. GRANVILLE ROAD</td>
<td>1968</td>
<td>310,538</td>
<td>1989</td>
<td>6,853,000</td>
<td>0.36%</td>
<td>15.87%</td>
<td>16.23%</td>
</tr>
<tr>
<td>3371 W. GRANVILLE ROAD</td>
<td>1971</td>
<td>265,079</td>
<td>1989</td>
<td>2,749,000</td>
<td>0.00%</td>
<td>13.88%</td>
<td>13.88%</td>
</tr>
<tr>
<td>3371 W. GRANVILLE ROAD</td>
<td>1986</td>
<td>2,078,666</td>
<td>1989</td>
<td>2,880,000</td>
<td>0.15%</td>
<td>11.48%</td>
<td>11.63%</td>
</tr>
<tr>
<td>3483 W. GRANVILLE ROAD</td>
<td>1965</td>
<td>24,000</td>
<td>1989</td>
<td>1,080,000</td>
<td>0.00%</td>
<td>17.19%</td>
<td>17.19%</td>
</tr>
<tr>
<td>3505 W. GRANVILLE ROAD</td>
<td>1968</td>
<td>17,114</td>
<td>1989</td>
<td>770,000</td>
<td>0.00%</td>
<td>19.87%</td>
<td>19.87%</td>
</tr>
<tr>
<td>1375 S. HAMILTON ROAD</td>
<td>1986</td>
<td>95,000</td>
<td>1986</td>
<td>95,000</td>
<td>-12.07%</td>
<td>0.00%</td>
<td>-12.07%</td>
</tr>
<tr>
<td>SHIER-RINGS ROAD</td>
<td>1978</td>
<td>241,848</td>
<td>1988</td>
<td>950,000</td>
<td>0.00%</td>
<td>14.66%</td>
<td>14.66%</td>
</tr>
<tr>
<td>EITETERMAN ROAD</td>
<td>1978</td>
<td>25,152</td>
<td>1988</td>
<td>725,000</td>
<td>0.00%</td>
<td>39.95%</td>
<td>39.95%</td>
</tr>
<tr>
<td>VA CLINIC</td>
<td>1979</td>
<td>3,767,261</td>
<td>1985</td>
<td>6,460,000</td>
<td>0.38%</td>
<td>9.40%</td>
<td>9.78%</td>
</tr>
</tbody>
</table>

**TOTALS**

$11,230,941

$39,395,000
APPENDIX III

DINING COMMONS REMODELING - PHASE I, NORTH COMMONS

Adopted by the Board of Trustees July 7, 1989
(See page 81)
DINING COMMONS REMODELING NORTH COMMONS

OFFICE OF BUSINESS AND ADMINISTRATION
JULY 7, 1989
APPENDIX IV

MASONRY REPAIRS - BRICKER HALL
MASONRY REPAIRS - POMERENE HALL
DODD HALL INTERFACE
DODD HALL HVAC SYSTEM MODIFICATIONS

Adopted by the Board of Trustees July 7, 1989
(See page 82)
Bids received by The Ohio State University on May 16, 1987. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "*".

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$61,000.00</td>
<td>$53,898.00</td>
<td>$58,600.00</td>
<td>$59,700.00</td>
<td>$66,658.00</td>
</tr>
<tr>
<td>Alt. G-1 (Ext. Stone Steps)</td>
<td>+$5,278.00</td>
<td>+$5,200.00</td>
<td>+$5,000.00</td>
<td>+$2,900.00</td>
<td></td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$76,000.00</td>
<td>$59,176.00</td>
<td>$63,800.00</td>
<td>$64,700.00</td>
<td>$69,558.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>L. N. C.</th>
<th>Grunwell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$81,600.00</td>
<td>$45,750.00</td>
<td></td>
</tr>
<tr>
<td>Alt. G-1 (Ext. Stone Steps)</td>
<td>+$7,140.00</td>
<td>+$51,750.00</td>
<td></td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$88,740.00</td>
<td></td>
<td>$97,500.00</td>
</tr>
</tbody>
</table>
Tabulation of Bids

Bids received by The Ohio State University on May 16, 1987. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "*".

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1 - Pomerene Hall</td>
<td>$160,000.00</td>
<td>$115,664.00</td>
<td>$120,000.00</td>
<td>$133,000.00</td>
<td>$183,900.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$160,000.00</td>
<td>$115,664.00</td>
<td>$120,000.00</td>
<td>$133,000.00</td>
<td>$183,900.00</td>
</tr>
<tr>
<td>(Includes all alternates)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

L.W.C.

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1 - Pomerene Hall</td>
<td>$208,813.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$208,813.00</td>
</tr>
<tr>
<td>(Includes all alternates)</td>
<td></td>
</tr>
</tbody>
</table>
MASONRY REPAIR
BRICKER HALL
POMERENE HALL

---

OFFICE OF BUSINESS AND ADMINISTRATION
JULY 7, 1989
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

DODD HALL INTERFACE

Tabulation of Bids

Bids received by The Ohio State University on May 4, 1989. Bids opened by Tamara Bell and tabulated by Robert Lopeman. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Functional Devel.</th>
<th>Ed Ross</th>
<th>Cody Zeigler</th>
<th>Outknecht</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$1,142,890.00</td>
<td>$987,769.00</td>
<td>$997,500.00</td>
<td>$1,037,000.00</td>
<td>$1,062,241.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$1,142,890.00</td>
<td>$987,769.00</td>
<td>$997,500.00</td>
<td>$1,037,000.00</td>
<td>$1,062,241.00</td>
</tr>
</tbody>
</table>

R & J

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$1,090,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$1,090,000.00</td>
</tr>
</tbody>
</table>
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

DODD HALL HVAC SYSTEMS MODIFICATIONS

Tabulation of Bids

Bids received by The Ohio State University on May 18, 1989. Bids opened by Tamara Bell and tabulated by Robert Lopeman. Award indicated with an "*".

<table>
<thead>
<tr>
<th>Fire Protection Contract</th>
<th>Estimate</th>
<th>Franklin Fire</th>
<th>Commale</th>
<th>Capital Fire</th>
<th>Culligan Fire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$182,694.00</td>
<td>$135,912.00</td>
<td>$157,105.00</td>
<td>$179,179.00</td>
<td>$197,785.00</td>
</tr>
<tr>
<td>Total Fire Protection Contract</td>
<td>$182,694.00</td>
<td>$135,912.00</td>
<td>$157,105.00</td>
<td>$179,179.00</td>
<td>$197,785.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$149,073.00</td>
<td>$109,975.00</td>
<td>$117,767.67</td>
<td>$124,800.00</td>
<td>$130,989.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$149,073.00</td>
<td>$109,975.00</td>
<td>$117,767.67</td>
<td>$124,800.00</td>
<td>$130,989.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC Contract</th>
<th>Estimate</th>
<th>J. A. Guy</th>
<th>Farber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$550,919.00</td>
<td>$603,700.00</td>
<td>$607,700.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$550,919.00</td>
<td>$603,700.00</td>
<td>$607,700.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Royal</th>
<th>Buckeye</th>
<th>Goodin</th>
<th>Demo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid - No Alternates</td>
<td>$286,300.00</td>
<td>$278,600.00</td>
<td>$284,300.00</td>
<td>$295,558.00</td>
<td>$299,300.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$286,300.00</td>
<td>$278,600.00</td>
<td>$284,300.00</td>
<td>$295,558.00</td>
<td>$299,300.00</td>
</tr>
</tbody>
</table>
DODD HALL HVAC
SYSTEM MODIFICATIONS
AND INTERFACE

OFFICE OF BUSINESS AND ADMINISTRATION
JULY 7, 1989
Page 128 is blank
APPENDIX V

1989-90 CURRENT FUNDS BUDGET

Adopted by the Board of Trustees July 7, 1989
(See page 104)
### Budgeted Resources
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$284.72</td>
<td>$283.58</td>
<td>$304.64</td>
</tr>
<tr>
<td>Student Fees</td>
<td>144.55</td>
<td>145.55</td>
<td>158.69</td>
</tr>
<tr>
<td>Other Resources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>94.03</td>
<td>96.17</td>
<td>102.88</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>12.05</td>
<td>14.06</td>
<td>15.53</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>12.44</td>
<td>12.56</td>
<td>13.84</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>51.00</td>
<td>53.73</td>
<td>61.86</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>9.10</td>
<td>9.10</td>
<td>10.35</td>
</tr>
<tr>
<td>Department and University Services</td>
<td>27.43</td>
<td>27.43</td>
<td>28.77</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>82.09</td>
<td>81.35</td>
<td>86.25</td>
</tr>
<tr>
<td>Hospital Sales &amp; Services</td>
<td>201.35</td>
<td>201.93</td>
<td>222.45</td>
</tr>
<tr>
<td>Other Sources</td>
<td>17.05</td>
<td>17.40</td>
<td>13.54</td>
</tr>
<tr>
<td>Total Other Resources</td>
<td>$506.54</td>
<td>$513.73</td>
<td>$555.47</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$935.81</td>
<td>$942.86</td>
<td>$1,018.80</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>12.18</td>
<td>11.93</td>
<td>13.30</td>
</tr>
<tr>
<td>Student Fees</td>
<td>8.82</td>
<td>9.16</td>
<td>9.77</td>
</tr>
<tr>
<td>Other Resources</td>
<td>3.24</td>
<td>3.49</td>
<td>4.58</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td>$24.24</td>
<td>$24.58</td>
<td>$27.65</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>19.54</td>
<td>19.54</td>
<td>21.70</td>
</tr>
<tr>
<td>Federal</td>
<td>6.65</td>
<td>6.65</td>
<td>7.60</td>
</tr>
<tr>
<td>All Other</td>
<td>3.92</td>
<td>3.92</td>
<td>4.54</td>
</tr>
<tr>
<td><strong>Total OARDC</strong></td>
<td>$30.11</td>
<td>$30.11</td>
<td>$33.84</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>316.44</td>
<td>315.05</td>
<td>339.64</td>
</tr>
<tr>
<td>Student Fees</td>
<td>153.37</td>
<td>154.71</td>
<td>168.46</td>
</tr>
<tr>
<td>Other Resources</td>
<td>520.35</td>
<td>527.79</td>
<td>572.19</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
<td>$990.16</td>
<td>$997.55</td>
<td>$1,080.29</td>
</tr>
</tbody>
</table>
## Budgeted Uses
(In Millions of Dollars)

<table>
<thead>
<tr>
<th>Use</th>
<th>Budget June 3, 1988</th>
<th>Revised Estimate</th>
<th>Proposed Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>$630.71</td>
<td>$636.57</td>
<td>$689.15</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>36.42</td>
<td>37.45</td>
<td>38.65</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>20.70</td>
<td>20.70</td>
<td>21.93</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>31.02</td>
<td>30.84</td>
<td>32.02</td>
</tr>
<tr>
<td>Total Auxiliaries</td>
<td>$88.14</td>
<td>$88.99</td>
<td>$92.60</td>
</tr>
<tr>
<td>University Hospitals</td>
<td>216.96</td>
<td>217.29</td>
<td>236.94</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$935.81</td>
<td>$942.85</td>
<td>$1,018.69</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>5.83</td>
<td>6.16</td>
<td>6.57</td>
</tr>
<tr>
<td>Lima Campus</td>
<td>5.03</td>
<td>5.03</td>
<td>5.49</td>
</tr>
<tr>
<td>Mansfield Campus</td>
<td>4.53</td>
<td>4.48</td>
<td>4.94</td>
</tr>
<tr>
<td>Marion Campus</td>
<td>3.88</td>
<td>4.05</td>
<td>4.74</td>
</tr>
<tr>
<td>Newark Campus</td>
<td>4.66</td>
<td>4.54</td>
<td>5.68</td>
</tr>
<tr>
<td>Total Regional Campuses</td>
<td>$23.92</td>
<td>$24.25</td>
<td>$27.42</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>30.11</td>
<td>30.11</td>
<td>33.84</td>
</tr>
<tr>
<td><strong>Total Uses</strong></td>
<td>$989.84</td>
<td>$997.21</td>
<td>$1,079.95</td>
</tr>
<tr>
<td>College or School</td>
<td>Credit Hours</td>
<td>Instruct. Fees</td>
<td>General Fees</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>--------------</td>
<td>----------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Undergraduate Colleges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>0</td>
<td>49</td>
<td>9</td>
</tr>
<tr>
<td>Allied Medical Prof.</td>
<td>1</td>
<td>98</td>
<td>18</td>
</tr>
<tr>
<td>Architecture</td>
<td>2</td>
<td>123</td>
<td>27</td>
</tr>
<tr>
<td>The Arts</td>
<td>3</td>
<td>147</td>
<td>36</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>4</td>
<td>196</td>
<td>47</td>
</tr>
<tr>
<td>Business</td>
<td>5</td>
<td>245</td>
<td>59</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>6</td>
<td>296</td>
<td>71</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>7</td>
<td>343</td>
<td>83</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>8</td>
<td>392</td>
<td>95</td>
</tr>
<tr>
<td>Health, Phys. Educ., &amp; Rec.</td>
<td>9</td>
<td>441</td>
<td>107</td>
</tr>
<tr>
<td>Home Economics</td>
<td>10</td>
<td>490</td>
<td>118</td>
</tr>
<tr>
<td>Humanities</td>
<td>11</td>
<td>539</td>
<td>150</td>
</tr>
<tr>
<td>Mathematics &amp; Physical Sci.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td>6</td>
<td>296</td>
<td>71</td>
</tr>
<tr>
<td>Natural Resources</td>
<td>7</td>
<td>343</td>
<td>83</td>
</tr>
<tr>
<td>Nursing</td>
<td>8</td>
<td>392</td>
<td>95</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>9</td>
<td>441</td>
<td>107</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>10</td>
<td>490</td>
<td>118</td>
</tr>
<tr>
<td>Social Work</td>
<td>11</td>
<td>539</td>
<td>150</td>
</tr>
<tr>
<td>University College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grad School</td>
<td>12+</td>
<td>588</td>
<td>142</td>
</tr>
<tr>
<td>Graduate School</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>55</td>
<td>18</td>
<td>128</td>
</tr>
<tr>
<td>1</td>
<td>110</td>
<td>18</td>
<td>128</td>
</tr>
<tr>
<td>2</td>
<td>177</td>
<td>28</td>
<td>205</td>
</tr>
<tr>
<td>3</td>
<td>285</td>
<td>43</td>
<td>368</td>
</tr>
<tr>
<td>4</td>
<td>353</td>
<td>57</td>
<td>410</td>
</tr>
<tr>
<td>5</td>
<td>442</td>
<td>71</td>
<td>513</td>
</tr>
<tr>
<td>6</td>
<td>530</td>
<td>85</td>
<td>615</td>
</tr>
<tr>
<td>7</td>
<td>618</td>
<td>99</td>
<td>717</td>
</tr>
<tr>
<td>8</td>
<td>706</td>
<td>114</td>
<td>820</td>
</tr>
<tr>
<td>9</td>
<td>795</td>
<td>128</td>
<td>923</td>
</tr>
<tr>
<td>10+</td>
<td>803</td>
<td>142</td>
<td>1,025</td>
</tr>
</tbody>
</table>
## Student Fee Schedule (Fees Per Quarter)

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours</th>
<th>Instruct. Fees</th>
<th>General Fees</th>
<th>Resident Total</th>
<th>Non-Resident Tuition</th>
<th>Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Professional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Law</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Fees Per Semester)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>98</td>
<td>14</td>
<td>112</td>
<td>156</td>
<td></td>
<td>268</td>
</tr>
<tr>
<td>1</td>
<td>195</td>
<td>27</td>
<td>222</td>
<td>312</td>
<td></td>
<td>534</td>
</tr>
<tr>
<td>2</td>
<td>313</td>
<td>43</td>
<td>356</td>
<td>500</td>
<td></td>
<td>856</td>
</tr>
<tr>
<td>3</td>
<td>469</td>
<td>64</td>
<td>533</td>
<td>749</td>
<td></td>
<td>1,282</td>
</tr>
<tr>
<td>4</td>
<td>625</td>
<td>85</td>
<td>710</td>
<td>999</td>
<td></td>
<td>1,709</td>
</tr>
<tr>
<td>5</td>
<td>782</td>
<td>107</td>
<td>889</td>
<td>1,249</td>
<td></td>
<td>2,138</td>
</tr>
<tr>
<td>6</td>
<td>938</td>
<td>128</td>
<td>1,066</td>
<td>1,499</td>
<td></td>
<td>2,565</td>
</tr>
<tr>
<td>7</td>
<td>1,094</td>
<td>149</td>
<td>1,243</td>
<td>1,749</td>
<td></td>
<td>2,992</td>
</tr>
<tr>
<td>8</td>
<td>1,250</td>
<td>170</td>
<td>1,420</td>
<td>1,998</td>
<td></td>
<td>3,418</td>
</tr>
<tr>
<td>9</td>
<td>1,407</td>
<td>192</td>
<td>1,599</td>
<td>2,248</td>
<td></td>
<td>3,867</td>
</tr>
<tr>
<td>10+</td>
<td>1,563</td>
<td>213</td>
<td>1,776</td>
<td>2,498</td>
<td></td>
<td>4,274</td>
</tr>
<tr>
<td>Pharmacy, Doctor of Pharmacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Fees Per Quarter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>65</td>
<td>9</td>
<td>74</td>
<td>104</td>
<td></td>
<td>178</td>
</tr>
<tr>
<td>1</td>
<td>130</td>
<td>16</td>
<td>148</td>
<td>206</td>
<td></td>
<td>356</td>
</tr>
<tr>
<td>2</td>
<td>208</td>
<td>28</td>
<td>236</td>
<td>333</td>
<td></td>
<td>569</td>
</tr>
<tr>
<td>3</td>
<td>313</td>
<td>43</td>
<td>356</td>
<td>500</td>
<td></td>
<td>856</td>
</tr>
<tr>
<td>4</td>
<td>417</td>
<td>57</td>
<td>474</td>
<td>666</td>
<td></td>
<td>1,140</td>
</tr>
<tr>
<td>5</td>
<td>521</td>
<td>71</td>
<td>592</td>
<td>833</td>
<td></td>
<td>1,425</td>
</tr>
<tr>
<td>6</td>
<td>625</td>
<td>85</td>
<td>710</td>
<td>999</td>
<td></td>
<td>1,709</td>
</tr>
<tr>
<td>7</td>
<td>729</td>
<td>99</td>
<td>828</td>
<td>1,166</td>
<td></td>
<td>1,994</td>
</tr>
<tr>
<td>8</td>
<td>834</td>
<td>114</td>
<td>948</td>
<td>1,332</td>
<td></td>
<td>2,280</td>
</tr>
<tr>
<td>9</td>
<td>938</td>
<td>128</td>
<td>1,066</td>
<td>1,499</td>
<td></td>
<td>2,565</td>
</tr>
<tr>
<td>10+</td>
<td>1,042</td>
<td>142</td>
<td>1,184</td>
<td>1,665</td>
<td></td>
<td>2,849</td>
</tr>
</tbody>
</table>
### Student Fee Schedule (Fees Per Quarter)

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours</th>
<th>Instruct. Fees</th>
<th>General Fees</th>
<th>Resident Total</th>
<th>Non-Resident Tuition</th>
<th>Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Professional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td>0</td>
<td>116</td>
<td>9</td>
<td>125</td>
<td>225</td>
<td>350</td>
</tr>
<tr>
<td>(fees Per Quarter)</td>
<td>1</td>
<td>231</td>
<td>18</td>
<td>249</td>
<td>450</td>
<td>699</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>370</td>
<td>28</td>
<td>398</td>
<td>720</td>
<td>1,118</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>555</td>
<td>43</td>
<td>598</td>
<td>1,080</td>
<td>1,678</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>740</td>
<td>57</td>
<td>797</td>
<td>1,440</td>
<td>2,237</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>925</td>
<td>71</td>
<td>996</td>
<td>1,801</td>
<td>2,797</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1,110</td>
<td>85</td>
<td>1,195</td>
<td>2,161</td>
<td>3,356</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1,295</td>
<td>99</td>
<td>1,394</td>
<td>2,521</td>
<td>3,915</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1,480</td>
<td>114</td>
<td>1,594</td>
<td>2,881</td>
<td>4,475</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>1,665</td>
<td>128</td>
<td>1,793</td>
<td>3,241</td>
<td>5,054</td>
</tr>
<tr>
<td></td>
<td>10+</td>
<td>1,850</td>
<td>142</td>
<td>1,992</td>
<td>3,601</td>
<td>5,593</td>
</tr>
<tr>
<td>Dentistry</td>
<td>0</td>
<td>93</td>
<td>9</td>
<td>102</td>
<td>201</td>
<td>303</td>
</tr>
<tr>
<td>Optometry</td>
<td>1</td>
<td>106</td>
<td>18</td>
<td>204</td>
<td>402</td>
<td>606</td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>2</td>
<td>298</td>
<td>28</td>
<td>326</td>
<td>643</td>
<td>969</td>
</tr>
<tr>
<td>(fees Per Quarter)</td>
<td>3</td>
<td>447</td>
<td>43</td>
<td>490</td>
<td>965</td>
<td>1,455</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>596</td>
<td>57</td>
<td>653</td>
<td>1,286</td>
<td>1,939</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>746</td>
<td>71</td>
<td>817</td>
<td>1,608</td>
<td>2,425</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>895</td>
<td>85</td>
<td>980</td>
<td>1,930</td>
<td>2,910</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1,044</td>
<td>99</td>
<td>1,143</td>
<td>2,251</td>
<td>3,394</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1,193</td>
<td>114</td>
<td>1,307</td>
<td>2,573</td>
<td>3,880</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>1,342</td>
<td>128</td>
<td>1,470</td>
<td>2,894</td>
<td>4,364</td>
</tr>
<tr>
<td></td>
<td>10+</td>
<td>1,491</td>
<td>142</td>
<td>1,633</td>
<td>3,216</td>
<td>4,849</td>
</tr>
</tbody>
</table>
### The Ohio State University
1989-90 Current Funds Budget

**Student Fee Schedule (Fees Per Quarter)**

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours Enrollment</th>
<th>Instruct. Fees</th>
<th>General Fees</th>
<th>Resident Total</th>
<th>Non-Resident Tuition</th>
<th>Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>49</td>
<td>7</td>
<td>56</td>
<td>57</td>
<td>113</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>98</td>
<td>14</td>
<td>112</td>
<td>114</td>
<td>226</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>123</td>
<td>22</td>
<td>145</td>
<td>227</td>
<td>372</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>147</td>
<td>29</td>
<td>176</td>
<td>341</td>
<td>517</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>196</td>
<td>38</td>
<td>234</td>
<td>454</td>
<td>688</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>245</td>
<td>48</td>
<td>293</td>
<td>568</td>
<td>861</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>294</td>
<td>57</td>
<td>351</td>
<td>682</td>
<td>1,033</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>343</td>
<td>67</td>
<td>410</td>
<td>795</td>
<td>1,205</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>392</td>
<td>76</td>
<td>468</td>
<td>909</td>
<td>1,377</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>441</td>
<td>86</td>
<td>527</td>
<td>1,022</td>
<td>1,549</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>490</td>
<td>95</td>
<td>585</td>
<td>1,136</td>
<td>1,721</td>
</tr>
<tr>
<td>11</td>
<td>11</td>
<td>539</td>
<td>105</td>
<td>644</td>
<td>1,249</td>
<td>1,893</td>
</tr>
<tr>
<td>12+</td>
<td>12+</td>
<td>588</td>
<td>114</td>
<td>702</td>
<td>1,363</td>
<td>2,065</td>
</tr>
<tr>
<td><strong>Graduate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>55</td>
<td>7</td>
<td>62</td>
<td>79</td>
<td>141</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>110</td>
<td>14</td>
<td>124</td>
<td>157</td>
<td>281</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>177</td>
<td>23</td>
<td>200</td>
<td>313</td>
<td>513</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>265</td>
<td>34</td>
<td>299</td>
<td>470</td>
<td>769</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>353</td>
<td>46</td>
<td>399</td>
<td>626</td>
<td>1,023</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>442</td>
<td>57</td>
<td>499</td>
<td>783</td>
<td>1,282</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>530</td>
<td>68</td>
<td>598</td>
<td>939</td>
<td>1,537</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>618</td>
<td>80</td>
<td>698</td>
<td>1,096</td>
<td>1,794</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>706</td>
<td>91</td>
<td>797</td>
<td>1,252</td>
<td>2,049</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>795</td>
<td>103</td>
<td>898</td>
<td>1,409</td>
<td>2,307</td>
</tr>
<tr>
<td>10+</td>
<td>10+</td>
<td>883</td>
<td>114</td>
<td>997</td>
<td>1,565</td>
<td>2,562</td>
</tr>
</tbody>
</table>
The Ohio State University
Board of Trustees

AUTHORIZATIONS

The University, in its negotiations to secure the services of Jack Hollander as Vice President for Research and Graduate Studies in 1983, made a commitment to compensate Dr. Hollander for his loss of retirement income in the State Retirement System of California which would result from his accepting his appointment at The Ohio State University.

The difference between the retirement income Dr. Hollander would have received had he remained in the California State Retirement System and the retirement income to which he will be entitled as a result of his six year appointment at The Ohio State University combined with his current California retirement entitlement is approximately $1,700 per month.

The University has agreed to purchase an annuity on Dr. Hollander's behalf which will provide the institution with sufficient income to raise the retirement benefit for Dr. Hollander to the level it would have been had he remained employed by the University of California, Berkeley, and retired at age 62 within the State of California Retirement System, accordingly.

The Vice President for Personnel Services is authorized to effect the purchase of such an annuity on behalf of the University.
Under State law, provision is made for supplementing a person's retirement benefits by the purchase of prior years of military service.

The purchase of 5 years of service by the University is consistent with the terms stipulated in the original letter of offer and subsequent appointment of Professor David Mayers.

Professor David Mayers qualifies under this law for the purchase of additional years of such credit from State Teachers Retirement System of Ohio, accordingly.

Effective July 1, 1989, the Secretary of the Board of Trustees is authorized to implement the purchase of such prior service credit (not to exceed a total of five (5) years) in increments as provided in Section 3307 of the Ohio Revised Code in the State Teachers Retirement System of Ohio on behalf of David Mayers and that the cost of service should be paid from unrestricted monies received by the University pursuant to Section 3345.16 of the Ohio Revised Code.
Page 138 is blank
Page 139 is blank
The Board of Trustees met at its regular monthly meeting on Wednesday, August 23, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**       **       **

Minutes of the last meeting were approved.

**       **       **
August 23, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on August 23, 1989, at 11:10 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

--0--

INTRODUCTION OF ALEX SHUMATE

Mr. Berry introduced the new member of the Board of Trustees:

I am happy to have the opportunity to formally introduce Alex Shumate as our newest Trustee today and to welcome him to our Board. Mr. Shumate is a partner with the law firm of Squire, Sanders & Dempsey in Columbus, having joined the firm after serving the Governor as Deputy Chief of Staff and Chief Counsel for several years. In addition to his professional activities, Mr. Shumate has been very active in community affairs, including service on the boards of the Columbus Museum of Art, the Columbus Urban League, Ballet Metropolitan and Ohio Wesleyan University. We all look forward to Mr. Shumate's participation with this Board and the oversight of The Ohio State University. I should note here that Mr. Shumate is a graduate of Ohio Wesleyan University and received his law degree from the University of Akron School of Law. Please join me in welcoming Alex Shumate as a Trustee.

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its standing committees met on Thursday, July 27.

The Professional Affairs/Education/Research Committee devoted much of its time to issues of methodologies related to defining, measuring, and enhancing the quality of patient care. Ms. Susan Insley, Committee chairperson, reported on the program that she, Dr. Kramer, and Mr. Fraley attended. According to the meeting leaders, although responsibility for quality assurance has shifted from the individual physician to the institution and boards like ours, there are no nationally accepted standards on either what constitutes, or how to measure, quality of care. However, we do believe, and HCFA mortality statistics apparently confirm that University Hospitals does provide excellent patient care. And I might say, by far the finest patient care in this community. In fulfilling the Board's ethical and legal responsibility to be informed about quality of care, Ms. Insley is working with Mr. Fraley and Dr. Mekhjian to review University Hospitals' existing criteria and develop new criteria and measurement standards for reporting this information to the Board. Also, Dr. Mekhjian was asked to review with us the process for credentialing of Physicians in the Hospitals.

The Administrative/Operations Committee reviewed the Hospitals' preliminary year-end financial statement. Although the Hospitals' budget for 1988-89 anticipated a net loss of $1.9 million, the actual loss was $1.1 million. But, of course, we had no Cancer Hospital. A report summarizing Franklin County hospitals' shares of the healthcare market appears to indicate that those hospitals utilizing aggressive management and marketing strategies have increased their market share while
HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford (contd)

University Hospitals' share has remained constant during the past four years. Those studies seem to indicate that we have indeed lost our dominance in the out-of-Franklin County tertiary care market, and I think that is cause for considerable concern. It is a very, very competitive business right now as all of you who have TV sets know. We are really going to have to face that problem. Since volume is critical to the Hospitals' fiscal stability, this emphasizes the importance of implementing the Medical Center's Strategic Plan. Discussion of the remaining major agenda item -- a review of the proposed five-year capital plan -- was continued at the full Board meeting.

After much discussion covering the interrelationship between operations and capital funds and need for a "worst case scenario," the Hospitals Board approved the proposed 1989-90 Capital Budget and the associated five-year Capital Plan. And I might say to you that this was an extremely modest plan. It hardly involves doing much more than repairs except in a couple of areas, and even then, frankly, I find it scary.

The Board also heard reports from Dr. John McDonald on the Hospitals' Pain Management Program, and from Dr. George Paulson on the Clinic Executive Committee's efforts toward improving patient services.

That completes my report, Mr. Chairman.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee reviewed the status of the Endowment Portfolio through July 21st as presented by Mr. Nichols. The value of the Endowment Portfolio was $292.3 million.

Mr. Nichols also reported on the status of the endowed chairs and professorships. Ohio State currently has 36 endowed chairs, including the previously approved 8 Eminent Scholars, and 41 endowed professorships. Donations of $1,250,000 are required to create an endowed chair and $500,000 for a professorship. We have asked the staff to distribute to the full Board the list of all of the chairs and professorships, as well as a map that we had asked for before on the areas around the university in color which I think you will find very helpful.

That completes my report for the Investments Committee, Mr. Chairman.

(See Appendix VI for complete text of The Ohio State University Endowment Summary, July 21, 1989, page 217.)
(See Appendix VII for complete text of Status Report on The Ohio State University Endowment Funds and The Ohio State University Foundation Endowment Funds as of June 30, 1989, page 229.)
ACADEMIC AFFAIRS COMMITTEE

Ms. Casto:

This morning the Academic Affairs Committee heard from the libraries and of course it was very interesting. I might recommend sometime that they present what they presented to us to the full Board. As you know, budgets have been very tight and I think that we have talked about our libraries being a priority here. I think that everyone should see these statistics. They are just too long and lengthy to name, so I think that you all might want to see the presentation.

The Academic Affairs Committee is recommending for approval the following resolutions:

NAMING OF BUILDING

Resolution No. 90-18

Synopsis: The Academic Affairs Committee recommended the approval for naming the bee laboratory, located on the Columbus Campus at 2501 Carmack Road, in honor of Professor Emeritus Walter C. Rothenbuhler

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus Campus at 2501 Carmack Road is currently described as the Bee Laboratory; and

WHEREAS during his twenty-one years at the University, Dr. Walter C. Rothenbuhler built a program in honey bee genetics at the University that earned him international recognition as one of the pioneers of behavioral genetics; and

WHEREAS Dr. Rothenbuhler is remembered for his ability to work with and motivate students, and his unbending standards of excellence; and

WHEREAS he has been instrumental in the replacement of the old bee laboratory with a new honey bee research facility, from the early planning stages in 1979 through the construction phases, even after his retirement in 1985; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned bee laboratory at 2501 Carmack Road be named in honor of Walter C. Rothenbuhler:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 2501 Carmack Road shall bear the name "Walter C. Rothenbuhler Honey Bee Research Laboratory."

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

144
August 23, 1989 meeting, Board of Trustees

**NAMING OF BUILDING**

Resolution No. 90-19

Synopsis: The Academic Affairs Committee recommended the approval for naming the Water Resources Building, located on the Columbus Campus near 12th and Neil Avenues, the General Biology Annex.

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus Campus near 12th and Neil Avenues is currently described as the Water Resources Building; and

WHEREAS the faculty and graduate students of the Water Resources Center have relocated from the Water Resources Building to the Agricultural Engineering Building; and

WHEREAS General Biology classes presently located on West Campus will be relocated to Main Campus in the present Water Resources Building beginning Fall Quarter; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned Water Resources Building be named the General Biology Annex:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building known as the Water Resources Building and located near 12th and Neil Avenues shall bear the name "General Biology Annex."

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

**MORTAR BOARD RECOGNITION**

Resolution No. 90-20

Synopsis: The Academic Affairs Committee recommended the recognition of the 75th anniversary of Mortar Board.

WHEREAS Mortar Board is a national honor society of college seniors recognized for superior scholastic ability, outstanding and continual leadership, and dedicated service in support of the ideals of the University; and

WHEREAS 1989 marks the seventy-fifth anniversary of the founding of Mortar Board at The Ohio State University; and

WHEREAS Mortar Board at The Ohio State University was one of the four founding chapters of the national organization of Mortar Board; and

WHEREAS the National Council of Mortar Board, Inc., has established at The Ohio State University its national archives and its national office; and
MORTAR BOARD RECOGNITION (contd)

WHEREAS The Ohio State University Mortar Board chapter will sponsor a seventy-fifth anniversary celebration on October 13 and 14, 1989:

NOW THEREFORE

BE IT RESOLVED, That The Ohio State University acknowledges the seventy-fifth anniversary of the founding of Mortar Board at The Ohio State University; and

BE IT FURTHER RESOLVED, That the Board of Trustees of The Ohio State University congratulates Mortar Board on its significant influence as a senior honor society on The Ohio State University campus over these seven and one-half decades, and encourages its continued pursuit of excellence through superior scholarship, distinguished leadership, and exemplary service for women and men.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

CHANGE "THE NEWTON D. BAKER - BAKER & HOSTETLER PROFESSORSHIP IN LAW" TO "THE NEWTON D. BAKER - BAKER & HOSTETLER CHAIR IN LAW"

Resolution No. 90-21


WHEREAS in accordance with the guidelines previously established by this Board, "The Newton D. Baker Memorial Fund" was established on February 1, 1974, with initial gifts from John D. Drinko of the law firm of Baker, Hostetler and Paterson, and several of his friends in memory of the firm's founder, Newton D. Baker; and

WHEREAS the name and description were changed to "The Newton D. Baker - Baker & Hostetler Professorship in Law" on February 7, 1986; and

WHEREAS all gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates; and

WHEREAS at the time of the establishment of the endowed fund it was agreed that the fund be redesignated The Newton D. Baker - Baker & Hostetler Chair in Law when the level of funding reaches $750,000; and

WHEREAS the level of funding has now reached the level required through unexpended earnings on the original investment:

NOW THEREFORE

BE IT RESOLVED, That The Newton D. Baker - Baker & Hostetler Professorship in Law be changed to The Newton D. Baker - Baker & Hostetler Chair in Law. The annual income shall be used to support the Newton D. Baker - Baker & Hostetler Chair in Law. The chair is created to
recognize the work of a distinguished scholar and teacher in the College of Law. Appointment to
the Newton D. Baker - Baker & Hostetler Chair in Law will be recommended to the Provost by the
Dean of the College of Law for approval by the Board; and

BE IT FURTHER RESOLVED, That if at any time the annual income is greater than that
necessary in the opinion of the Dean of the College of Law to support the chair, or if the chair
should be vacant, the available income may, at the discretion of the Dean of the College of Law,
be used to award a Newton D. Baker Award to one or more students in need of financial aid, or
for one or more Newton D. Baker Summer Research Fellowships for faculty members of the
College of Law; and

BE IT FURTHER RESOLVED, That should the need for this fund cease to exist or so diminish as
to provide unused income, then the income may be used for any purpose whatsoever as
determined by the Board of Trustees, with preference being given to recommendations from the
appropriate administrative official for the University who is then directly responsible for law
education.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the
foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the
University since the July 7, 1989 meeting of the Board, including the following Change in Title,
Appointment, Appointment of Chairpersons of Departments, Reappointment of Chairpersons of
Departments and Director of Hospital, Leaves of Absence Without Salary, Leave of Absence
Without Salary--Continuation, Professional Improvement Leave, Professional Improvement
Leaves--Change in Dates, Emeritus Titles, and Promotion/Tenure, as detailed in the University
Budget be approved and the Medical Staff Appointments/Reappointments approved July 27,
1989, by the Hospitals Board be ratified.

Change in Title

Name: THOMAS L. SWEENEY
Title: Acting Vice President for Research and Graduate Studies
Office: Research and Graduate Studies
Effective: September 1, 1989
Present Position: Associate Vice President for Research and Graduate Studies

Appointment

Name: KENNETH C. JEZEK
Title: Director/Associate Professor
Center/Department: Byrd Polar Research Center/Geology and Mineralogy
Effective: December 1, 1989
Salary: $66,600.00
August 23, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment (contd)

Present Position: Geophysicist, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, Research Assistant Professor, Thayer School of Engineering, Dartmouth College, Hanover, NH

Appointment of Chairpersons of Departments

July 1, 1989 through June 30, 1990

Poultry Science

J. Fred Stephens*

August 1, 1989 through June 30, 1990

Agricultural Education

R. Kirby Barrick, Jr.*

October 1, 1989 through September 30, 1990

Black Studies

William T. McDaniel*

Reappointment of Chairpersons of Departments and Director of Hospital

July 1, 1989 through June 30, 1990

Veterinary Hospital

John A. E. Hubbell

July 1, 1989 through June 30, 1993

Home Economics Education

Textiles and Clothing

Sharon V. Redick

Lucy R. Sibley

*Acting Chairperson/Director

Leaves of Absence Without Salary

ABRAHAM J. NEYMAN, Professor, Department of Economics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a Visiting Professorship at Stony Brook.

MORGAN E. SHIPMAN, Professor, College of Law, effective Autumn Semester 1989, to accept the Culverhouse Chair at Stetson University College of Law.

LAWRENCE R. BRAMLAGE, Associate Professor, Department of Veterinary Clinical Sciences, effective August 1, 1989, through July 31, 1990, for personal reasons.

GARY J. FERLAND, Associate Professor, Department of Astronomy, effective Winter Quarter 1990, for personal reasons.

RICHARD K. HERRMANN, Associate Professor, Department of Political Science, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to work on the Policy Planning Staff in the U.S. Department of State, Washington, DC.
PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary (contd)

CHARLES E. WILSON, Associate Professor, College of Law, effective Autumn Semester 1989, to accept a visiting professorship at Brooklyn Law School.

DANIEL O. BOORD, Assistant Professor, Department of Photography and Cinema, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a visiting associate professorship at the School of Art and Design at the University of Illinois.

RUTH F. CAUTHEN, Assistant Professor, College of Dentistry--Restorative & Prosthetic, effective September 1, 1989, through October 31, 1989, for personal reasons.

TIMOTHY P. REDMAN, Assistant Professor, Department of English (Lima Campus), effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at The University of Texas at Dallas.

SHIBLEY Z. TELHAMI, Assistant Professor, Department of Political Science, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a fellowship from the Council on Foreign Relations.

Leave of Absence Without Salary--Continuation

POK-SANG LAM, Assistant Professor, Department of Economics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter, 1990, to continue as a Visiting Professor at Stanford University.

Professional Improvement Leave

VIVIAN B. HARVEY, Adjunct Instructor, Department of Family Relations and Human Development, effective July 1, 1989, through June 30, 1990, to study the Spanish language and the Mexican culture in Mexico.

Professional Improvement Leaves--Change in Dates

MARCIA P. MICELI, Associate Professor, Academic Faculty of Management and Human Resources, change leave from Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1989 and Winter Quarter 1990.

S. M. TARIQ RIZVI, Associate Professor, Department of Mathematics (Lima Campus), change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Winter Quarter, Spring Quarter, and Autumn Quarter 1990.

Emeritus Titles

JEROME ROTHSTEIN, Department of Computer and Information Science, with the title Professor Emeritus, effective July 1, 1989.

WILLIAM M. SUMNER, Department of Anthropology, with the title Professor Emeritus, effective July 1, 1989.

DAVID YASHON, Department of Surgery, with the title Professor Emeritus, effective January 1, 1989.
August 23, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

BETTY C. HARRIS, Department of Family and Community, with the title Instructor Emeritus, effective July 1, 1989.

Promotion/Tenure

COLLEGE OF MEDICINE

CLINICALS

Promotion to Clinical Professor

A. James Giannini, Psychiatry, effective July 1, 1989

Upon motion of Ms. Casto, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 90-23

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Daniel Couri

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 3, 1989, of Daniel Couri, Professor in the Department of Pharmacology, College of Medicine.

Professor Couri was born on October 4, 1930, in Streator, Illinois. He received a Bachelor of Science degree in 1954 from Queens College, New York; a Master of Science in 1958 from New York University; and a Ph.D. from the State University of New York, Brooklyn in 1965. Dr. Couri was in the U.S. Military Service, Army Chemical Center from 1954 to 1956 and then served with Public Health Research between the years 1957 to 1960.

Dr. Couri joined the pharmacology faculty at The Ohio State University in 1965 and became Director of the Toxicology Laboratory in 1967. He remained as the Director of the Toxicology Division of Pharmacology serving as mentor for students until his death. During this time he had authored more than 160 journal publications and 12 chapters for various books under such topics as obstetrics, pharmacology and forensic toxicology. Dr. Couri also received numerous major research grants from the EPA and other state and federal organizations.

Dr. Couri was also Director of Forensic Toxicology at the Franklin County Coroner's office. He was selected by Dr. William R. Adrion to head toxicology work for the new county morgue that opened in 1977. For 12 years, he had directed the OSU laboratory that did contract toxicology work for the morgue.
RESOLUTIONS IN MEMORIAM (contd)

Daniel Couri (contd)

He was active in many professional organizations within his field, including: the American Society for Pharmacology and Experimental Therapeutics; the International Association of Forensic Toxicologists; the Society of Toxicology and served as counselor and vice president of the Ohio Valley Chapter in 1983; and The Ohio Academy of Science. Dr. Couri served as a member of the American Industrial Hygiene Association's All Ohio Safety and Health Congress; the American Conference of Governmental Industrial Hygienists; the Society for the Scientific Detection of Crime; the American College of Toxicology; the American Academy of Forensic Sciences; and the International Union of Pharmacologist's Section on Toxicology.

Dr. Couri served as consultant to the Clinical and Forensic Toxicology Service of the Legal and Medical Professions and as a technical consultant to the State of Ohio Department of Mental Health and Prosecuting Attorney's Association. He was a member of the Toxicology Laboratory Accreditation Board, along with being a member of the Advisory Boards of the Ohio EPA Public Advisory Group, the City of Columbus Department of Health, and the Chemical Emergency Preparedness Advisory Council.

At The Ohio State University, Professor Couri also served on many committees including the Graduate Council; the Human Subjects Biomedical Research Committee; the University Senate; the Academic Misconduct Committee; the Faculty Compensation and Benefits Committee; the Biohazard Committee for Animal Science; and the departmental Promotion and Tenure committee. He also served as a faculty representative to The Ohio State University Research Foundation Board of Directors.

Despite his many accomplishments, Dr. Couri was most proud of his students. He was the advisor for 25 Ph.D. students who went on to research careers in academic, industrial, and government laboratories. He had a special knack for recruiting and inspiring students and researchers. He was honored by the pharmacology department and students for his outstanding contributions as a teacher and for his dedication.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Couri its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, his students, the University, and his many friends and associates have sustained.

Sara Ann Foster

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 1, 1989, of Sara Ann Foster, Assistant Professor in the College of Social Work.

A native of Greencastle, Indiana, Professor Foster received her B.A. degree from the University of New Mexico in 1948 and her Master of Arts in Social Administration degree from The Ohio State University in 1952. She also did post-graduate study at the University of Wisconsin from 1972-74. Professor Foster served as a research analyst for the High Allied Command in Frankfurt, Germany, in 1950-51. Following the completion of her master of social work degree, she was employed variously as a psychiatric social worker and researcher until 1956 when she became an Instructor for the Department of Sociology at Ohio Wesleyan University. Professor Foster became an Assistant Professor at The Ohio State University College of Social Work in 1963, and served the college continuously since that time.
RESOLUTIONS IN MEMORIAM (contd)

Sara Ann Foster (contd)

During her 26 years as a faculty member, Sara Ann Foster strove diligently to meet the needs of her students and to serve the best interests of the college and the University. Professor Foster taught social welfare policy courses, primarily to undergraduates, and health practice and policy courses to graduate students. She also pioneered courses on women's issues, and she was a very strong and active campaigner in the drive for equal opportunity and treatment for women. She published articles on social work field instruction and on gender related discrimination. In addition to her teaching and research, Professor Foster was deeply involved in the management of the operations of the college through her tireless work on college committees. In the community and in her profession Professor Foster was a member of the House of Delegates of the Council on Social Work Education; the Board of Directors of the Ohio Chapter of the National Association of Social Workers; the Ohio College Association of Social Service Educators; AAUP; and Ohio Women, Incorporated.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Nellie F. Jennings

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 11, 1989, of Nellie F. Jennings, Assistant Professor Emeritus in the University Libraries.

Professor Jennings was born February 3, 1903, in Delaware, Ohio (Delaware County). In 1924, she was awarded a Bachelor of Science in Education degree from The Ohio State University. In 1926, she earned a library certificate (an equivalent to a Master's degree) from Western Reserve University.

Professor Jennings was an Assistant School Librarian from 1926 to 1928, in Cleveland, and Young People's Librarian, 1928 to 1929, in the Cleveland Public Library, before beginning her tenure during the latter year with The Ohio State University Libraries as an Assistant in the Reference Department. Between 1930 and 1935 she worked at the Ohio Wesleyan University Library, followed by service in the State Library of Ohio, 1935 to 1945, as Head, Traveling Libraries and Head, Inter-Library Loan.

In 1947, she returned to The Ohio State University Libraries as Reference Department Assistant. She later served as Head, Serial Division, from 1954 to 1961, and as Senior Bibliographer, from 1961 until her retirement in 1973.

Professor Jennings always demonstrated an unsurpassed sense of professional duty and responsibility. She was long an active member of the Franklin County Library Association, the Ohio Library Association, and the American Association of University Professors. Professor Jennings served both willingly and ably on numerous local and state-level committees to advance library service. One notable legacy of her contribution to The Ohio State University Libraries was her work to structure a "Central Serial Record" file, from what had been thousands of scattered files recording serial publications received by the University Libraries system. Ohio State and its library system are richer for having had the benefit of many, many years of devoted, loyal service by Professor Jennings.
RESOLUTIONS IN MEMORIAM (contd)

Nellie F. Jennings (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Professor Jennings its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and her many friends and associates have sustained.

Henry M. Moser

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on March 7, 1989, of Henry M. Moser, Professor Emeritus in the Department of Communication.

Professor Moser was born February 1, 1902, in Wapakoneta, Ohio (Auglaize County). Professor Moser received his B.A. degree in 1924 from The Ohio State University, M.A. degree from the University of Michigan in 1928, and his Ph.D. from the State University of Iowa in 1936.

Professor Moser taught graduate studies at both the University of Michigan and The Ohio State University, from which he retired in 1968. While at Ohio State, Professor Moser served as director of the Speech and Hearing Clinic while also acting as a communication consultant to the U.S. Air Force. During the Korean War, he developed the ICAO phonetic alphabet still utilized by the U.S. Military, NATO, as well as the civilian aviation community. During World War II he served as director of Training of Voice Communication for the Army Air Corps. Professor Moser was credited with the development of the diagnostic testing procedure which allows laryngectomy patients to speak.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Moser its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Helen L. Wallace

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 9, 1989, of Helen L. Wallace, Assistant Professor Emeritus in the Department of Life Span Process.

Ms. Wallace was born in Cambridge, Ohio, on May 12, 1924. She received her diploma from the Newark Hospital School of Nursing in October 1945, a B.S. in Education (Summa Cum Laude) from The Ohio State University in March 1953, and also her M.S. in Nursing from Ohio State in June 1959.

Ms. Wallace was affiliated both with The Ohio State University Hospitals and the School/College of Nursing from 1953 until 1959. She began as a staff nurse, Medical Unit, The Ohio State University Hospitals in 1953. Prior to her retirement, she served as the Director of Operating Room Nursing from 1973 until 1980, and was the Coordinator of Nursing Quality Assurance from 1980 until 1988 in The Ohio State University Hospitals. Ms. Wallace was appointed Instructor of Surgical Nursing, School of Nursing from 1953 until 1959, and served as Assistant Professor, School of Nursing from 1959
RESOLUTIONS IN MEMORIAM (contd)

Helen L. Wallace (contd)

until 1972. Ms. Wallace's affiliation with the School/College of Nursing continued on in the capacity of Adjunct Assistant Professor until her retirement in June 1988. Ms. Wallace also served as a Clinical Professor in the School of Allied Medicine from 1979 until 1983.

In her thirty-five years of service to The Ohio State University, Ms. Helen Wallace conducted herself in a professional and in a very humane and caring manner. The College of Nursing pays tribute to Ms. Wallace's sustained contribution to teaching and service at the University and to her dedication and commitment to the advancement of the nursing profession.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Wallace its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Lowell Ashley Wrigley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 27, 1989, of Lowell Ashley Wrigley, Assistant Dean Emeritus in the Office of Student Affairs.

Born December 4, 1910, in Lima, Ohio, Mr. Wrigley graduated from Lima Central High School where he was captain of the football team. He received his Bachelor of Science in Education degree from The Ohio State University in 1932. As a scholar-athlete he earned three varsity letters each in both baseball and basketball, was elected treasurer of the sophomore class and to membership in the honor societies Bucket and Dipper and Sphinx. He was a member of the Tau Kappa Epsilon Fraternity.

Mr. Wrigley began his professional career as a teacher of mathematics and science at Johnsville High School where he also coached basketball. From there he moved to Celina High School to continue teaching and to coach basketball.

His long and effective service to The Ohio State University began in June 1937, when he was appointed to the Dean of Men's staff and served as the first director of Baker Hall, which opened in 1939. As an effective member of the men's residence hall staff during the time of unprecedented growth in residence halls; he earned the respect and admiration of his colleagues and students. He served as faculty adviser to numerous student organizations including Ohio Staters, Inc., the senior honor society Sphinx, and the national honor society Phi Eta Sigma. He also served as coach of The Ohio State University baseball team in 1945-46 and later as an assistant coach with coaches Floyd Stahl and Marty Karow.

Mr. Wrigley served as a Big Ten football official for 17 years. He officiated the 1963 Rose Bowl Game and the 1970 Cotton Bowl Game. The Ohio Association of Football Officials honored him with life membership and he served as the secretary/treasurer of the association for many years. He was elected President of the Central Ohio Football Officials Association in 1966. Lowell Wrigley earned the respect and confidence of his peers for his inspirational leadership, his sharp and fair decision-making ability, and his complete integrity. Upon his retirement on July 31, 1973, he was named Assistant Dean Emeritus.
RESOLUTIONS IN MEMORIAM (contd)

Lowell Ashley Wrigley (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Mr. Lowell Wrigley its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Shumate:

The Board will receive three presentations this morning from student government leaders. The first report, I believe, will be presented by Mr. Steve Sloan on behalf of the Interprofessional Council.

Mr. Steve Sloan:

Thanks a lot. I'm impressed you got my name. Steve Diebert actually could have made it today, but I told him since I was entering my third year of medical school and I would probably not be able to make too many more meetings that I would just go ahead and give my last report. But Steve is looking forward to speaking to you at the next meeting.

I want to welcome Alex Shumate to the Board of Trustees. If my last name sounds familiar to you, it's because my twin brother worked for Squire, Sanders & Dempsey during the summer. I think you can tell us apart fairly easily -- I don't wear a suit, my brother does; my brother is in law school, I'm in medical school. So, I think it is pretty easy to keep us apart.

Last year we spoke a lot about the organizational structure of the IPC and how we were really just trying to strengthen that. I think we pretty much have worn that topic pretty thin. This year we plan to be productive and actually get some things done.

We plan to take advantage of some of the things that we have built up -- our organization, our office, and things like that. We also plan to work with the other student governments, the Undergraduate Government and the Graduate Student Government -- they have a lot of expertise and experience that we may lack. Also, we are looking forward to working with the Board of Trustees and the administration.

That concludes my report and thank you very much.

Mr. Shumate:

Are there any questions? Thank you. Our next report will be given by Luke Evans from the Council of Graduate Students.
Mr. Luke Evans:

Good morning. Chairman Berry, President Jennings, members of the Board, we are looking forward to this coming year and working with you and the rest of the University. We have some pretty exciting things on the slate for the coming year. Our activities for this summer have been quite busy.

First of all, we have been selected as the site for the National Membership Coordinator position with the NAGS organization. That is a board member position. So we think this would be very good for highlighting Ohio State nationwide. We will be making a lot of efforts to recruit members to NAGS. Since we will be working with present members as well as potential members, we think this is probably the most visible position on the board of directors.

On the local scene, we have completed our interviews for all of our university-wide committees. We have some excellent people selected and as a result we think that we will be able to make a positive contribution to the activities of this university.

Benetta Lucius, our Vice President, has been working very diligently on our orientation and reception for graduate students on Monday, September 18. We value this highly because it is very important to us that 2,900 new graduate students entering this University get off to a good start. We will be orienting them as far as to where the libraries are, basic things like that. We will also have panel discussions with successful graduate students who will give them some words of advice on how to proceed successfully through the program. In the evening we will be holding a reception, the second annual reception. The purpose of this is to promote the social side of Graduate School. We do want new graduate students get to know the senior graduate students, as well as key graduate faculty and administrators here at Ohio State. So we think that we will be getting everyone off to a good start there. At this reception we will have a jazz band, food refreshments and door prizes. So we think that these carrots will help encourage -- if there is any shyness on the part of the new students -- we hope that will bring them out.

And, finally, a little bit on the lighter side, we managed to double our office space this summer. That is something that is hard to do on this campus. We had four people working in a room 14 x 13 feet, we now have 14 x 26 feet. This was a win, win, win situation. All parties involved managed to come out ahead. This makes it even more rare. But this is the way we would like to work with the University throughout the year. We do not want to advocate our position at the expense of other significant groups at the University. Thank you.

Mr. Shumate:

Are there any questions? Thank you, Mr. Evans. Our final report will come from David Straub representing the Undergraduate Student Government.

Mr. David Straub:

Good afternoon. Members of the Board of Trustees, President Jennings, good afternoon. Today, my presentation is unique -- I think I try to make them unique all of the time -- I know that you are in meetings all day.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

First and foremost, I would like to introduce somebody that has been working very diligently this summer in the Undergraduate Student Government. His name is Mike Arnott. He is back there, will you please stand, Mike. He has been working very hard this summer to represent the students of the University.

On to some of the things that we have been doing this summer. We just attended a conference -- the U.S.S.A. Conference out in Berkeley, California. United States Student Association is a national lobbying organization for students. We were out there and I would say highly visible and active and debating some of the issues that will be lobbied at the national level for students. We made a lot of connections and a lot of friends out there and have networked to some of the campuses that we will be working with in the upcoming year.

This brings me to another point, in the beginning of September we will be working with the Big 10 Conference that will be held out in Iowa City. The ten universities will be represented and a platform will be developed from the student governments of those universities. We are excited about that and we are looking forward to attending.

I'd like to ask, Laurel, if you could help me out with a little presentation that I have to make. If you could help me string this out. It is regarding student organizations. What I want to do is show it to you -- the student organizations on this campus and will give you a little feel for this. If you want to walk back there. This is not rehearsed by the way.

Ms. Davis:

No, it's not.

Mr. Straub:

The point is that these are all of the address labels for the registered student organizations. This goes on for a ways. This is to prove a little point. The student organizations on this campus number over 500. And if you would like to write to them, I am sure their labels are there. There are many things that students gain from being a member of those student organizations. They develop leadership skills so they can become active leaders in the community upon graduation. They enhance their education through practical experience in dealing with students and administrators. They make the campus more cohesive. These different organizations represent things from astronomy club to zoology, and on down. It is very important that these organizations are active at this University. One of my thoughts and one of the things that we just heard about Wednesday, is that approximately $2,000 will be cut from the funds of these organizations. And that is a major concern of mine and to all of those students involved in those student organizations. I think that the University should look at those organizations as a higher priority than they have in the past.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

There are student organizations around the country that receive more money as an individual student government than all of our student organizations and student governments receive combined. That is an important point to take note of, because those developed leadership skills can then add to the University in the future in other ways such as endowing a chair possibly. Those are things that we would like to look at. We would like the University to reconsider the funding process for the students organizations. That is basically my point and I think it is pretty self-explanatory.

One of the other things that is of concern to me is the vision of the University, I guess, and the representation of students on committees and on Senate. And I can just explain to you when a student comes to sit down before tenured faculty members in a committee, to say the least, it may be intimidating for them. President Jennings has expressed the fact that he likes to have two students appointed so they can stay together and represent the views of the students. But I would like to go one step further, and have more students represented on those university committees and in the Senate. I know that I am asking for a lot, but I think that this campus is a student campus, at least in my view, and that we should represent those students' views as strongly as possible.

That concludes my report. One last note, published teacher evaluations are a major concern of students and we are continuing this struggle to have those published to provide more information for students. Thank you, and have a good afternoon. Any questions?

Mr. Berry:

I would like to ask a question. You said that there are over 500 various student groups at the present time. Are all of these ongoing groups or are some of them started and then dropped?

Mr. Straub:

Let me clarify some of those student organizations, because it is somewhat complicated. There are some organizations that continue to be strong on campus year in and year out and some come and go. A lot of student organizations, I would say the majority, don't apply for funding through the University, and that is another issue in itself -- the funding procedure for those organizations. I don't have a number for you specifically as to how many have been around for how many years, but there are a good number that are active in University activities.

Mr. Berry:

You mentioned the astronomy organization -- that would be limited to the people, I presume, that are interested in that. Would they have any formal goals that they are working towards?
I don't know exactly what that particular club's objective would be, but every club has a special interest. It is not the point of whether we agree with their views or not, because there are some political organizations. And those political organizations cannot be funded, but the other organizations that may have special interests at heart are a viable part in the whole process of University activities. In my opinion their views, although they may disagree with mine, are important just the same.

President Jennings:
You might point out, David, for each one of these student organizations one of the requirements to be recognized is that there has to be an advisor. Something like the astronomy club would have a faculty advisor and this would be typically students interested in astronomy, but not majoring in astronomy. It might include some majors, but the student organizations of that character typically have students who are interested in the field but not majoring necessarily in that particular activity. We were talking about Mortar Board -- Mortar Board would fit under the same rubric. The fraternities and sororities would fit under the same rubric. The Young Republicans and the Young Democrats would fit under the same rubric. It is the whole diversity of the student body that is to be represented. The funding is always difficult. I would mention that whenever university funding for student services is compared, it is always extraordinarily difficult because it depends on the accounting technique. Where ours is put through the normal budgets of student services in the various collegiate units, there are student government organizations who are responsible for the entire student services funding. For example, the University of Iowa shows up with a student government having about $3 million of student organization funding. We would show up with much more than that, except our accounting process would not put that money into student government, it would put it under Russ's budget.

I might add that David looks to me, Jack, like a marvelous young marketing major. He has learned his job well. If you would note, looking at those labels, every other one is blank.

Mr. Straub:
No, that's my family's addresses.

Mr. Berry:
I might take this opportunity to make one slight correction. Normally, under past chairmen, it would be afternoon when you report this, but since I run a very tight ship it is still morning.

Mr. Shumate:
Any other questions? Thank you, David. Mr. Chairman, I might suggest that we may have a trial lawyer in the making, because I saw that as demonstrative evidence.
August 23, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub:

I watch too many movies.

Mr. Shumate:

That completes my report, Mr. Chairman.

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

This morning we had a report from OARDC on their plan to reduce expenditures and to balance the annual operating budget by the end of this year, and also to eliminate a negative cash balance by 1993. It is a very well thought out plan. They have touched all the important bases. It is an example of downsizing in this University. It can be painful, but this has been done very thoroughly and with great feeling, I think, for those concerned.

I would like to introduce Dr. Kirklyn Kerr, who is with us this morning, who is the head of OARDC; and Dr. Warmbrod, who is back there, too. He is the Acting Vice President for Agriculture.

Since there were five Trustees in our Board meeting this morning, which is the majority, if there are any questions we certainly have the expertise in the room to answer them. It is sort of what all of agriculture is facing and that is that they were carrying a debt and they decided to meet it square on and to take the appropriate action. The program will certainly level off and go forward with great speed and zeal, I think. That completes my report.

Mr. Berry:

I might add that on that Committee there were two very competent Trustees in attendance, because you had two farmers in attendance.

Mrs. Bowser:

Some of us make our living farming --

Mr. Kessler:

Who was the second?

Mr. Berry:

If you don't know the second, I'm not going to tell you.

(See Appendix VIII for complete text of the College of Agriculture Report on OARDC, August 23, 1989, page 237.)

--0--

160
FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

The Fiscal Affairs Committee began by hearing a report on the University debt. Mr. Nichols provided a summary of the outstanding debt and savings resulted from the use of variable rate debt, reviewed improvements to the debt management process, and listed the projects being considered for a coming debt issue. Staff is currently reviewing proposals from investment banking firms interested in being the bond underwriters.

(See Appendix IX for the complete chart on The Ohio State University Plant Indebtedness as of June 30, 1989, page 239.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
APRIL - JUNE 1989
Resolution No. 90-24

Synopsis: The Fiscal Affairs Committee recommended acceptance of the quarterly report on waivers of competitive bidding requirements.

WHEREAS the Purchasing Policy of The Ohio State University, adopted by the Board of Trustees on September 7, 1984, provides that the President and/or the Vice President for Business and Administration may grant a waiver from competitive bidding in the event of an emergency, when a sufficient economic reason exists, or when the goods or services can be purchased from only a single source, with a report on such waivers to be made quarterly to this Board; and

WHEREAS the Vice President for Business and Administration has submitted a report on waivers of competitive bidding requirements granted for the period of April-June 1989, and the Fiscal Affairs Committee recommends the acceptance of this report:

NOW THEREFORE

BE IT RESOLVED, That the report on waivers of competitive bidding requirements for the period of April-June 1989, is hereby accepted.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 90-25

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summaries for June and July 1989.
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the months of June and July 1989 be approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR JUNE 1989

<table>
<thead>
<tr>
<th>Background</th>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The Ohio State University Research Foundation</td>
<td>157</td>
<td>$9,304,065.94</td>
</tr>
<tr>
<td></td>
<td>Engineering Experiment Station</td>
<td>55</td>
<td>$455,289.00</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>212</td>
<td>$9,759,354.94</td>
</tr>
<tr>
<td></td>
<td>The Ohio State University Development Fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment of Named Funds</td>
<td>Ohio Eminent Scholar in High-Temperature Structural Materials (Provide salary and program support for an outstanding scholar-leader in high-temperature structural materials)</td>
<td></td>
<td>$500,000.00</td>
</tr>
<tr>
<td></td>
<td>(Designated by General Assembly of Ohio)</td>
<td></td>
<td>$500,000.00</td>
</tr>
<tr>
<td></td>
<td>(University Funds)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ohio Eminent Scholar in Macromolecular Structure Determination (Provide salary and program support for an outstanding scholar-leader in macromolecular structure determination)</td>
<td></td>
<td>$500,000.00</td>
</tr>
<tr>
<td></td>
<td>(Designated by General Assembly of Ohio)</td>
<td></td>
<td>$500,000.00</td>
</tr>
<tr>
<td></td>
<td>(University Funds)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR JUNE 1989 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

Ohio Eminent Scholar in Protein Engineering
(Provide salary and program support for an outstanding scholar-leader in protein engineering) $ 500,000.00 (Designated by General Assembly of Ohio)

Ford Motor Company - EEOC Scholarship for Minorities and Women (Scholarships) $ 200,000.00

The Campbell Hall Building Fund (Cover building-related costs) $ 50,000.00

The Henry County 4-H Endowment Fund (Scholarship and the Henry County 4-H program) $ 29,000.00

The Sam Cashman Family 4-H Endowment Fund (Support development of innovative ways to expand 4-H membership) $ 25,090.00

75th Anniversary Scholarship Fund (Nursing scholarships) $ 19,000.00

The S. Maurice Bostic and Birch S. M. Bostic Memorial Award Fund (Awards - College of Business) $ 17,633.60

The Robert A. Barnes Award for Exemplary Teaching (Award for exemplary teaching - Newark Campus) $ 15,000.00
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR JULY 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>143</td>
<td>$13,444,058.27</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>35</td>
<td>$82,500.00</td>
</tr>
<tr>
<td>Total</td>
<td>178</td>
<td>$13,526,558.27</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The Paul and Lucy Dale Kent Cancer Research Endowment Fund
  (Support cancer research) $15,000.00
- The Marshall McDonald Scholarship Fund
  (Scholarships to students in Beekeeping Technology at ATI) $15,000.00
- The Floyd B. Mellor Scholarship Fund
  (Scholarships to graduate associates in beef cattle research at OARDC) $15,000.00
- The John Weller Wuichet, Jr., and Norma Johns Wuichet Endowment Fund
  (Assist selected departments or divisions in the College of the Arts in recruiting and retaining outstanding students) $15,000.00
- The Chhotey Lal and Mohra Devi Rustagi Memorial Lectureship Fund
  (Honoraria and expenses incurred by visiting lecturer(s) to the Department of Statistics) $5,000.00

Change in Name and Description of Named Fund

From: The Hospitality Management Research Fund
To: Bob Evans Farms Inc., Hospitality Research Fund

Change in Description of Named Funds

- Arthur E. Baggs Memorial Fund
- The Baker & Hostetter Law Library and Building Fund
- The H. P. Wolfe Chair in Accounting Fund

The Ohio State University Foundation

Approval of Description and Establishment of Professorship

- The Robert K. Fox Professorship in Chemistry Fund
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - June 1989

Federal Research Contracts/Grants


$272,947.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Modification of Diet in Renal Disease (MDRD) Study, Department of Internal Medicine (L. A. Hebert), 1 June 1989 through 28 February 1990. (Project 766873 - Continuation)

$227,365.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Human Leucocyte Fragment Crystallizable Receptor Structure and Function, Department of Internal Medicine (C. L. Anderson), 1 July 1989 through 30 June 1990. (Project 765701 - Continuation)

$200,000.00 - National Aeronautics and Space Administration, Washington, D.C., Hypersonic Training and Research, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 1 June 1989 through 31 May 1990. (Project 765979 - Continuation)


$175,641.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preteaching Strategy Research, Education Administration and Department of Education Services and Research (L. Magliocca), 1 October 1989 through 30 September 1990. (Project 767101 - Continuation)

$171,006.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center -- East Asia, Office of International Affairs (C. M. Chen), 15 August 1989 through 14 August 1990. (Project 766979 - Continuation)

$145,966.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Functional Domains of the HSV-1 65K DNA Binding Protein, Department of Microbiology and Immunology (D. S. Parris), 1 July 1989 through 30 June 1990. (Project 765482 - Continuation)

$140,883.50 - Department of Health and Human Services, Centers for Disease Control, Atlanta, Georgia, Study to Evaluate the Impact Strategies to Improve Prevention Behaviors and Reduce the Risk for Lower Extremity Amputation in Persons with Diabetes Mellitus, Department of Internal Medicine (S. Cataland), 30 September 1989 through 29 September 1990. (Project 767120 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$134,911.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Pharmacodynamics of Agents for Bladder Cancer Intravesical Therapy, College of Pharmacy (J. L. S. Au) and Department of Surgery (M. G. Wientjes), 1 June 1989 through 31 May 1990. (Project 767508 - New)

$131,216.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Acute Phase Reactants: Induction and Host Resistance, Department of Microbiology (R. F. Mortensen), 1 July 1989 through 30 June 1990. (Project 762354 - Continuation)

$130,463.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Genetics of Myogenesis: Structure and Function, Department of Molecular Genetics (S. Falkenthal), 1 June 1989 through 31 May 1990. (Project 763993 - Continuation)

$119,144.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 761160 - Continuation)

$115,237.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Developmental Plasticity of Descending Spinal Pathways, Department of Anatomy (G. F. Martin, Jr.), 1 July 1989 through 30 June 1990. (Project 766115 - Continuation)

$110,358.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Program, 1989 - 1990 (Graduate and Professional Study Fellowships), Graduate School Administration (J. D. Dickerscheid), 1 October 1989 through 30 September 1990. (Project 766115 - Continuation)

$105,130.00 - Department of the Interior, Geological Survey, Reston, Virginia, FY 1989 Ohio Water Research Institute Program, Department of Civil Engineering and Engineering Experiment Station (R. C. Stiefel), Department of Chemical Engineering (L. S. Fan), Department of Agronomy (G. K. Sims and S. J. Traina), and Department of Agricultural Engineering (A. Ward), 1 July 1989 through 30 June 1990. (Project 766908 - Continuation)

$104,046.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preservice Training for Ohio School Psychologists to Provide Related Services Promoting Placement in the Least Restrictive Environment for Students Who are Severely Handicapped, Education Administration (K. D. Arnold), 1 June 1989 through 31 May 1990. (Project 766059 - Continuation)

August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$97,400.00 - National Science Foundation, Washington, D.C., Radiative and Collisional Atomic Data for Singly Ionized Iron, Department of Astronomy (A. K. Pradhan), 1 July 1989 through 31 July 1990. (Project 767507 - New)

$90,989.00 - Department of Health and Human Services, National Institute on Aging, Bethesda, Maryland, Age-Related Changes in the Perception of Speech, Division of Speech and Hearing Science (R. A. Fox), 1 July 1989 through 30 June 1990. (Project 767540 - New)

$89,123.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Application of Low Temperature Chemistry and Kinetics to Photoaffinity Labeling, Department of Chemistry (M. S. Platz), 1 July 1989 through 30 June 1990. (Project 765496 - Continuation)

$84,493.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Aberrant Papovavirus Replication After Genotoxic Damage, Department of Radiology (R. M. Snapka), 1 June 1989 through 31 May 1990. (Project 766206 - Continuation)

$83,500.00 - Department of Energy, Argonne, Illinois, Structure and Regulation of Methanogen Genes, Department of Microbiology (J. N. Reeve), 1 July 1989 through 30 June 1990. (Project 766060 - Continuation)

$82,998.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Enroute Flight Path Planning: Cooperative Performance of Flight Crews and Knowledge-Based Systems, Department of Industrial and Systems Engineering (P. J. Smith), 1 July 1989 through 30 June 1990. (Project 766389 - Continuation)

$77,188.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Training School Speech/Language Pathologists in an Educationally-Based Model, Education Administration (T. M. Stephens) 1 September 1989 through 31 July 1990. (Project 767591 - New)

$75,828.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Professional Nurse Traineeship Program, Department of Family and Community Nursing (E. M. Menke), 1 July 1989 through 30 June 1990. (Project 760803 - Continuation)

$74,704.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Development and Implementation of a Ph.D. Program in Special Education with an Emphasis in Applied Behavior Analysis, Department of Education Services and Research (W. L. Heward), 1 October 1989 through 30 September 1990. (Project 766390 - Continuation)

$72,455.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Role of Polyamines in Calmodulin and C-Kinase Regulation, Periodontology (J. D. Walters), 1 July 1989 through 30 June 1990. (Project 765508 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$70,602.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, A Study of Ionic Channels in Rat Pituitary Somatotrophs, Department of Pharmacology (J. J. Enyeart), 1 May 1989 through 30 April 1990. (Project 766691 - Continuation)

$67,074.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Project LRE/PE, School of Health, Physical Education, and Recreation (P. Jansma), 1 July 1989 through 30 June 1990. (Project 765970 - Continuation)


$65,296.00 - National Science Foundation, Washington, D.C., Workstation for Flow Visualization, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 June 1989 through 31 May 1990. (Project 767515 - New)

$63,500.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Developing a Prototype System for Intelligent Information Retrieval, Department of Industrial and Systems Engineering (P. J. Smith), Department of Pathology (J. W. Smith), and Health Sciences Library (E. J. Sawyers), 1 October 1989 through 30 September 1990. (Project 767559 - New)


$58,965.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Regulation of Metamorphosis Behavior in the Tsetse Fly, Department of Entomology (D. L. Denlinger), 1 June 1989 through 31 May 1990. (Project 767561 - New)


$53,550.00 - National Science Foundation, Washington, D.C., Extensions of the Graph-Minor Project, Department of Mathematics (G. N. Robertson), 15 June 1989 through 31 May 1990. (Project 767504 - New)

$51,459.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Mediastinal Effects on Pulmonary Function, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 June 1989 through 31 May 1990. (Project 766765 - Continuation)
Federal Research Contracts/Grants (contd)

$50,903.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1989 through 30 June 1990. (Project 764653 - Continuation)

$49,148.00 - National Science Foundation, Washington, D.C., Field Theoretic Models of Nuclear and Subnuclear Systems, Department of Physics (R. J. Perry), 1 September 1989 through 31 August 1990. (Project 766657 - Continuation)

$45,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Robust Estimation of Regional Deformations and Relative Plate Motions from Robust Estimation, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1989 through 31 July 1990. (Project 761054 - Continuation)

$43,277.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Small Instrumentation Program, Research and Graduate Studies Administration (T. L. Sweeney), 19 June 1989 through 31 May 1990. (Project 767571 - Continuation)

$42,243.00 - Department of Health and Human Services, Bureau of Health Professions, Rockville, Maryland, Graduate Program in Hospital and Health Services Administration, Hospital and Health Services Administration (S. F. Loebs), 1 October 1989 through 30 September 1990. (Project 761329 - Continuation)

$41,641.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Foreign Language and Area Studies Fellowships in Slavic and East European Studies, Office of International Affairs (J. P. Scanlan), 15 August 1989 through 14 August 1990. (Project 767007 - Continuation)


$40,751.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Multiple Comparisons with the Best Treatment, Department of Statistics (J. C. Hsu), 1 June 1989 through 31 May 1990. (Project 765581 - Continuation)

$39,988.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Radar Cross Section Computation of Arbitrarily Shaped Cavities, ElectroScience Laboratory, Department of Electrical Engineering (R. C. Chou), 21 June 1988 through 20 June 1990. (Project 766823 - Continuation)

$39,895.00 - Department of the Navy, Naval Material Command, China Lake, California, Ram and Inlet Modeling: Compact Range Scattering, ElectroScience Laboratory, Department of Electrical Engineering (P. Pathak, W. D. Burnside, and R. J. Marhefka), 1 July 1989 through 29 December 1989. (Project 764991 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$29,100.00 - National Science Foundation, Washington, D.C., Topics in the Foundations of Mathematics, Department of Mathematics (H. Friedman), 1 June 1989 through 31 May 1990. (Project 767495 - New)

$25,917.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Research Training Program in Psychoneuroimmunology, Department of Microbiology and Immunology (M. R. Glaser), 1 July 1989 through 30 June 1990. (Project 766200 - Continuation)

$25,000.00 - Department of the Army, Army Corps of Engineers, Champaign, Illinois, Perform a Functional and Structural Review of the Geographic Resources Analysis Support System (GRASS), Center for Mapping (J. D. Bossler), 1 June 1989 through 31 January 1990. (Project 766475 - Continuation)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Mathematics (K. Rubin), 1 February 1990 through 31 January 1991. (Project 766905 - Continuation)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Computer and Information Science (K. J. Supowit), 1 September 1989 through 28 February 1991. (Project 766850 - Continuation)

$24,999.00 - Department of the Army, Army Materiel Command, Aberdeen Proving Ground, Maryland, Medetomidine Analogs as Alpha Adrenergic Agonists, College of Pharmacy (D. D. Miller), 1 June 1989 through 31 May 1990. (Project 767531 - New)

$23,750.00 - National Science Foundation, Washington, D.C., Development and Applications of Periodic Soliton Theory for Nearly Integrable Partial Differential Equations, Department of Mathematics (G. Forest), 1 December 1989 through 30 November 1990. (Project 766786 - Continuation)

$23,600.00 - National Science Foundation, Washington, D.C., L-Functions with Applications to the Oscillator Representation, Department of Mathematics (S. Rallis), 1 December 1989 through 30 November 1990. (Project 766771 - Continuation)

$22,150.00 - National Science Foundation, Washington, D.C., Simulation and Field Measurement of Aspects of the Urban Canopy Layer Climate and Energy Budget, Department of Geography (A. J. Arnfield), 16 March 1988 through 31 May 1990. (Project 766530 - Continuation)

$21,584.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Determination of Residual Stress and Effects in Thick Section Weldments for Hydraulic Structures, Department of Welding Engineering (C. L. Tsai), 12 December 1988 through 11 December 1989. (Project 767229 - Continuation)

$20,726.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Application of Borehole Geophysics to Locating Tunnels, Department of Geology and Mineralogy (J. J. Daniels), 1 April 1989 through 30 September 1989. (Project 766708 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$20,000.00 - National Science Foundation, Washington, D.C., Development of High Deformation Rate Experiment at Elevated Temperatures, Department of Engineering Mechanics (A. Gilat), 1 June 1989 through 31 May 1990. (Project 767516 - New)

$18,674.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Packet Radio Networks, Department of Electrical Engineering (R. L. Hamilton), 8 June 1989 through 8 September 1989. (Project 767502 - New)

$18,095.00 - National Science Foundation, Washington, D.C., Computational Studies of Vortex Flow, Department of Mathematics (G. R. Baker), 16 June 1988 through 31 December 1989. (Project 766749 - Continuation)

$15,000.00 - National Aeronautics and Space Administration, Washington, D.C., SETI Research, Department of Electrical Engineering (J. D. Kraus and R. S. Dixon), 1 April 1989 through 31 March 1990. (Project 764694 - Continuation)

$12,000.00 - National Science Foundation, Washington, D.C., Algebraic Combinatorics of Hyperplane Arrangements, Department of Mathematics (L. Rose and J. C. Ferrar), 1 June 1989 through 31 May 1990. (Project 767506 - New)

$12,000.00 - National Science Foundation, Washington, D.C., Productive Versus Non-Productive Binding Kinases, Department of Chemistry (M. D. Tsai), 1 September 1988 through 28 February 1990. (Project 765630 - Continuation)


$9,454.00 - Department of Health and Human Services, Bureau of Health Professions, Rockville, Maryland, Traineeships for Students in Graduate Health Administration, Hospital and Health Services Administration (S. F. Loebs), 1 July 1989 through 30 June 1990. (Project 767532 - New)

$9,309.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Small Instrumentation Program, College of Pharmacy (R. W. Brueggemeier), 1 June 1989 through 31 May 1990. (Project 767522 - New)

$4,000.00 - National Science Foundation, Washington, D.C., Structure and Dynamic Behavior of Selected Organolithium Compounds, Department of Chemistry (G. A. Fraenkel), 1 January 1989 through 31 December 1989. (Project 767225 - Continuation)

$4,000.00 - National Science Foundation, Washington, D.C., Kinetics, Spectroscopy, and Mechanistic Studies of Carbenes, Biradicals, and Radicals, Department of Chemistry (M. S. Platz), 1 February 1989 through 31 January 1990. (Project 767259 - Continuation)
Federal Research Contracts/Grants (contd)

$3,307.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Modification of Diet in Renal Disease (MDRD) Study, Department of Internal Medicine (L. A. Hebert), 1 June 1989 through 28 February 1990. (Project 766873 - Continuation)

$826.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 May 1989 through 31 July 1989. (Project 767556 - Continuation)

$770.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 May 1989 through 31 July 1989. (Project 767557 - Continuation)

TOTAL - FEDERAL AWARDS $5,252,521.50

State of Ohio Research Contracts/Grants

$315,014.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Ecology and Population Dynamics of Lake Erie Fishes, Department of Zoology (B. Vondracek), 1 July 1989 through 30 June 1990. (Project 766201 - Continuation)

$284,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Southwest Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Studies: Humanities, Science, Technological, and Vocational (A. J. Miller), and Department of Home Economics Education (S. V. Redick), 1 July 1989 through 30 June 1990. (Project 766226 - Continuation)

$239,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Central Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Studies: Humanities, Science, Technological, and Vocational (A. J. Miller), and Department of Home Economics Education (S. V. Redick), 1 July 1989 through 30 June 1990. (Project 766218 - Continuation)

$202,176.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (B. Vondracek, R. A. Stein, and D. A. Culver) and School of Natural Resources (D. L. Johnson), 1 July 1989 through 30 June 1990. (Project 766202 - Continuation)

$157,760.00 - State of Ohio, Department of Health, Columbus, Ohio, OSU High Risk Perinatal Project -- Care of the High Risk Mother and Infant, Department of Pediatrics (L. Cordero), 1 October 1988 through 30 September 1989. (Project 765042 - Continuation)

$134,660.00 - State of Ohio, Department of Education, Columbus, Ohio, A Multifaceted Look at the Effects of Program OPTIONS, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767415 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$80,808.00 - State of Ohio, Department of Health, Columbus, Ohio, Early Intervention Update Survey, Nisonger Center (E. King and S. R. Schroeder), 1 October 1988 through 30 June 1989. (Project 767019 - Continuation)

$26,074.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Impact of Medication and Individual Versus Group Psychotherapy on Adolescents Who are Severely Emotionally Disturbed and Incarcerated, Department of Psychology (J. C. Gibbs), 26 May 1989 through 31 March 1990. (Project 767505 - New)

$20,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1989 through 30 June 1990. (Project 766265 - Continuation)


$15,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Enhancing Mathematics Through Technology Inservice, Research and Graduate Studies Administration (W. F. Palmer), 17 March 1989 through 30 June 1989. (Project 767392 - New)

$14,282.00 - State of Ohio, Ohio Library Board, Columbus, Ohio, Retrospective Conversion of the Library's Catalogue of Holdings to Machine-Readable Format, Mansfield Campus (D. Cheatham), 1 July 1989 through 30 June 1990. (Project 767570 - New)

$7,766.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, A Collaborative Relationship, Department of Family and Community Nursing (J. A. Clement), 21 February 1989 through 30 June 1989. (Project 767349 - New)

$3,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Images of China: A Cultural Journey, Continuing Education Administration (J. L. Kramer), 3 December 1988 through 31 August 1989. (Project 767549 - New)

$2,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, The University Learning Guild -- "Images of China: A Cultural Journey," Continuing Education Administration (J. L. Kramer), 4 March 1989 through 28 August 1989. (Project 767517 - New)

Total - State of Ohio Awards $1,523,039.00

Industrial Research Contracts/Grants

Industrial Research Contracts/Grants (contd)

$100,000.00 - Mission Research Corporation, Santa Barbara, California, Advanced Radar Cross Section Measurement Range, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and J. D. Young), 1 January 1989 through 31 December 1989. (Project 766973 - Continuation)

$84,460.00 - Pfizer, Inc., Groton, Connecticut, Study No. 064-017-501, Department of Pharmacology (N. Gerber), 1 May 1989 through 30 April 1990. (Project 767512 - New)


$67,114.00 - Pfizer, Inc., Groton, Connecticut, Study No. 120-003-501, Department of Pharmacology (N. Gerber), 10 April 1989 through 9 April 1990. (Project 767511 - New)


$45,000.00 - CeramPhysics, Inc., Westerville, Ohio, Ceramic Honeycombs for Joule-Thompson Cryocooler, Department of Materials Science and Engineering (E. R. Kreidler), 6 April 1989 through 30 June 1990. (Project 767533 - New)

$40,220.00 - Pfizer, Inc., Groton, Connecticut, Study No. 110-003-501, Department of Pharmacology (N. Gerber), 20 April 1989 through 19 April 1990. (Project 767514 - New)

$39,739.00 - Pfizer, Inc., Groton, Connecticut, Evaluation of the Safety, Clinical Activity, Toleration, and Pharmacokinetics of CP-80,794 -- A Single Escalating Dose Study in Normotensive Healthy Volunteers, Department of Pharmacology (N. Gerber), 18 October 1988 through 31 December 1989. (Project 765696 - Continuation)


$35,000.00 - Brunswick Corporation, Marion, Virginia, Radome Research, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 November 1988 through 30 September 1989. (Project 767500 - New)

$26,832.00 - Pfizer, Inc., Groton, Connecticut, Study No. 124-002-501, Department of Pharmacology (N. Gerber), 17 April 1989 through 16 April 1990. (Project 767513 - New)

$24,000.00 - Owens-Illinois, Columbus, Ohio, Industrial Water Treatment Operator Orientation and Training Development, Education Administration (J. J. Buffer), 1 June 1989 through 31 December 1989. (Project 767519 - New)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$23,235.00 - Adria Laboratories, Dublin, Ohio, Test of the Absorption of Adria Magnesium Lactate Tablets, Department of Pharmacology (N. Gerber), 1 March 1989 through 28 February 1990. (Project 767547 - New)

$21,455.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 June 1988 through 28 February 1989. (Project 766329 - Continuation)

$21,450.00 - Church and Dwight Company, Inc., Princeton, New Jersey, Identifying and Characterizing the Flavor Components of Megalac Rumen Bypass Fat, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (D. B. Min), 1 June 1989 through 31 December 1989. (Project 767529 - New)

$16,869.00 - Brunswick Corporation, Marion, Virginia, Wedge Studies, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 March 1989 through 30 September 1989. (Project 766719 - Continuation)

$15,261.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Amlodipine to Alter the Pharmacodynamics of Warfarin, Department of Pharmacology (N. Gerber), 1 April 1989 through 31 December 1989. (Project 765696 - Continuation)

$14,636.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 April 1989 through 30 September 1989. (Project 766470 - Continuation)

$12,805.00 - Pfizer, Inc., Groton, Connecticut, A Multiple Dose, Double-Blind, Placebo-Controlled Study of the Safety, Tolerance, and Pharmacokinetics of CP-72,467 in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 6 September 1988 through 31 December 1989. (Project 765696 - Continuation)

$10,800.00 - The Firestone Tire and Rubber Company, Akron, Ohio, Measuring Soil Compaction Beneath Agricultural Tires, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (R. K. Wood and R. G. Holmes) and Department of Agricultural Engineering - OARDC and Cooperative Extension State Operations (R. C. Reeder), 15 May 1989 through 30 June 1990. (Project 767523 - New)

$9,476.84 - Universal Energy Systems, Inc., Dayton, Ohio, Demonstration of Parallel Computation for a 3D-Rigid Viscoplastic Finite Element Method, Department of Computer and Information Science (P. Sadayappan, F. E. Ozguner, and K. Schwan) and Department of Electrical Engineering (B. Weide), 1 July 1988 through 30 November 1988. (Project 765894 - Continuation)

$9,308.00 - CeramPhysics, Inc., Westerville, Ohio, Stress Analysis of Honeycomb Structures, Department of Materials Science and Engineering (P. M. Anderson), 1 July 1989 through 31 March 1991. (Project 767594 - New)
Industrial Research Contracts/Grants (contd)


$2,631.00 - Oral-B Laboratories, Redwood City, California, The Effectiveness of Dental Floss, Interdental Brushes, and a Non-Dental Cotton Coated Wire in Removing Supragingival Accumulations in a Periodontally Diseased Model, Dental Hygiene (C. H. Devore), 1 July 1989 through 30 September 1990. (Project 767576 - New)

$2,444.00 - Adria Laboratories, Columbus, Ohio, Single Dose Pharmacokinetic and Bioavailability Study of Toremifene in Postmenopausal Healthy Volunteers, Department of Pharmacology (N. Gerber), 1 July 1989 through 30 June 1990. (Project 767554 - New)

$1,500.00 - Navistar International Transportation Corporation, Columbus, Ohio, Winning Through Fitness, School of Health, Physical Education, and Recreation (W. J. Rudman), 1 January 1989 through 31 December 1989. (Project 767298 - Continuation)

TOTAL - INDUSTRIAL AWARDS $1,014,599.44

Other Non-Federal Research Contracts/Grants

$312,852.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1989 through 30 September 1990. (Project 767544 - Continuation)

$277,808.00 - University of Pennsylvania, Philadelphia, Pennsylvania, Conducting Electronic Polymers by Non-Redox Processes Synthesis, Physical Studies, and Application, Department of Physics (A. J. Epstein), 1 April 1989 through 31 March 1990. (Project 765670 - Continuation)

$175,977.00 - Healthcare Financial Management Association, Westchester, Illinois, The Development of a Financial Service for the Hospital Industry, Hospital and Health Services Administration (W. O. Cleverley), 1 July 1989 through 30 June 1990. (Project 761794 - Continuation)

$116,267.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Exemplary Dental Services for the Handicapped, Nisonger Center (E. S. Sterling), 1 July 1989 through 30 June 1990. (Project 767539 - Continuation)

$73,000.00 - American Cancer Society, Atlanta, Georgia, Patterns of Macromolecular Synthesis During Acquisition and Loss of Amplified Genes, Department of Radiology (R. M. Snapka), 1 July 1989 through 30 June 1990. (Project 765521 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$45,410.00 - AARP Andrus Foundation, Washington, D.C., A Plan to Increase Hope in the Older Population Through an Increase in Positive Activities and Imagery, Newark Campus (S. Staats), 1 July 1989 through 30 June 1990. (Project 767572 - New)

$42,287.00 - The Association for Computers and the Humanities, Chicago, Illinois, Text Encoding Initiative, Department of Computer and Information Science (S. A. Mamrak), 1 January 1989 through 31 May 1990. (Project 767580 - New)

$30,000.00 - National Alliance for Research on Schizophrenia and Depression, Chicago, Illinois, Investigation of Anti-depressants Acting in the GABA-Receptor Chloridelonophore Complex, Department of Psychiatry (S. C. Dilisaver and E. Malatynska), 1 July 1989 through 30 June 1990. (Project 767530 - New)

$28,000.00 - Columbus State Community College, Columbus, Ohio, Intramural/Recreation and Athletic Training/Administration Program, School of Health, Physical Education, and Recreation (W. A. Sutton), 1 July 1989 through 30 June 1990. (Project 767549 - Continuation)


$26,100.00 - Battelle Memorial Institute, Columbus, Ohio, Central Electron Optics Facility Analytical Services for Battelle, Central Electron Optics Facility (R. W. Burry), 15 November 1988 through 8 September 1989. (Project 767565 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Isolated Myocytes from Spontaneously Failing Rat Hearts, Department of Physiological Chemistry (R. A. Altschuld), 1 July 1989 through 30 June 1990. (Project 767562 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Isolated Myocytes from Failing Human Ventricle, Department of Physiological Chemistry, (R. A. Altschuld and Q. Li), 1 July 1989 through 30 June 1990. (Project 767564 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Calcium Cycle of Heart Mitochondria, Department of Physiological Chemistry (D. Jung), 1 July 1989 through 30 June 1990. (Project 767563 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Role of Atrial Natriuretic Peptide and Other Vasoactive Hormones in Developing Hypertension in SHR:N-Mcc-cp Rats, Department of Veterinary Pathobiology (M. J. Radin), 1 July 1989 through 30 June 1990. (Project 767568 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Investigation of Autonomic Responses to Passive Upright Tilt in Symptomatic Patients with Mitral Valve Prolapse, Department of Internal Medicine (S. F. Schaal), 1 July 1989 through 30 June 1990. (Project 767550 - New)
Other Non-Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Sponsor</th>
<th>Description</th>
<th>Principal Investigator</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>$20,000.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Effects of Angioplasty (PTCA) on Regional Diastolic Function in Limited Coronary Artery Disease, Department of Internal Medicine (D. B. Van Fossen)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767552 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$20,000.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Z-line Structural Dynamics as a Function of Physiological State, Department of Veterinary Anatomy and Cellular Biology (M. Yamaguchi)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767567 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$19,966.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Pathogenesis of Non-Pulmonary Organ Failure in Adult Respiratory Distress Syndrome (ARDS), Department of Internal Medicine (P. M. Dorinsky)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767551 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$19,966.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Mechanisms of Organ Injury During the Pathogenesis of Phorbol Myristate Acetate-Induced Adult Respiratory Distress Syndrome, Department of Veterinary Anatomy and Cellular Biology (L. A. Mizer)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767573 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$19,980.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Cellular Dynamics of Failure-Prone Cardiomyocytes, Department of Physiology (B. T. Stokes)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767558 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$19,944.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Autonomic Control of the Contractile and Endocrine Function of the Heart, Department of Internal Medicine (R. J. Cody and G. J. Haas)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767569 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$19,747.00</td>
<td>American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio</td>
<td>Roles of Hypertension and Arrhythmia in a Rat Heart Failure Model, Department of Veterinary Physiology and Pharmacology (R. L. Hamlin)</td>
<td>1 July 1989 through 30 June 1990</td>
<td>(Project 767575 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$18,000.00</td>
<td>Ten Members of the National Alliance of Community and Technical Colleges</td>
<td>Study Tour for the Vocational Training Council -- Hong Kong, Center on Education and Training for Employment (R. D. Ryan)</td>
<td>1 May 1989 through 31 July 1989</td>
<td>(Project 766839 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$16,874.00</td>
<td>Battelle Memorial Institute, Columbus, Ohio</td>
<td>Parainfluenza Pneumonia and Vaccination, Department of Veterinary Pathobiology (G. S. Krakowka)</td>
<td>1 June 1989 through 30 September 1989</td>
<td>(Project 767574 - New)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$15,000.00</td>
<td>Arthritis Foundation - Central Ohio Chapter, Columbus, Ohio</td>
<td>Immunoregulation and Autoimmunity, Department of Internal Medicine (R. L. Whisler)</td>
<td>1 April 1989 through 31 March 1990</td>
<td>(Project 760620 - Continuation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,614.00</td>
<td>Hong Kong Government, Hong Kong</td>
<td>Study Tour for the Vocational Training Council -- Hong Kong, Center on Education and Training for Employment (R. D. Ryan)</td>
<td>1 May 1989 through 31 July 1989</td>
<td>(Project 767527 - New)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$10,240.00 - The Columbus Foundation, Columbus, Ohio, Audiology Equipment to Increase Identification of Increased Numbers of Hearing Impaired Infants, Nisonger Center (P. Niswander), 1 June 1989 through 31 May 1990. (Project 767553 - New)

$9,540.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (J. F. Disinger), 1 July 1989 through 30 June 1990. (Project 765812 - Continuation)

$8,350.00 - Great Lakes Commission, Ann Arbor, Michigan, Great Lakes Curriculum Development, School of Natural Resources (R. W. Fortner), 1 June 1989 through 31 December 1989. (Project 767509 - New)

$6,675.00 - Ohio Poultry Association, Columbus, Ohio, Testing Feeding Programs for Layers Which Have Different Protein, Amino Acid, and Energy Levels for Their Cost Effectiveness, Department of Poultry Science - OARDC and Department of Poultry Science (J. D. Latshaw), 1 June 1989 through 30 May 1990. (Project 767541 - New)

$6,021.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Subcontract for the General Participant Training II Project in Indonesia, Office of International Affairs (D. G. McCloud), 1 April 1988 through 21 June 1989. (Project 766807 - Continuation)

$5,000.00 - Ohio Poultry Association, Columbus, Ohio, The Growth Characteristics of Nicholas and British United Turkey Toms When Fed Diets Containing Two Levels of Dietary Protein and the Response of Hens to Step-Down Versus Step-Up Lighting Programs, Department of Poultry Science - OARDC (M. S. Lilburn), 1 April 1989 through 31 December 1989. (Project 767542 - New)

$4,409.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 767080 - Continuation)

$2,500.00 - Sport Fishing Institute, Washington, D.C., The Effects of Trip Duration and Angler Demographics on Recreation Demand Functions: The Case of Ohio's Lake Erie Sport Fishery, Department of Agricultural Economics and Rural Sociology OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak), 1 October 1989 through 30 June 1990. (Project 767545 - New)

$2,470.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Mesothelioma Pathology Subcommittee, Department of Pathology (J. G. Lucas), 1 January 1989 through 31 December 1989. (Project 764837 - Continuation)

$1,924.00 - Arts Midwest, Minneapolis, Minnesota, Ballet West, Mershon Auditorium (R. Stearns), 28 September 1989 through 28 September 1989. (Project 767501 - New)

$1,425.00 - Arts Midwest, Minneapolis, Minnesota, David Parsons Dance Company, Mershon Auditorium (R. Stearns), 24 January 1990 through 26 January 1990. (Project 767499 - New)
Other Non-Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000.00</td>
<td>Detroit Edison Company, Newport, Michigan, Consortium for the Development of Instructor Training Materials for the Electric Power Industry (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767280 - Continuation)</td>
</tr>
<tr>
<td></td>
<td>Equipment - University of Colorado, Boulder, Colorado, University NAVSTAR Consortium Membership, Center for Mapping (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 767555 - New) (Approximate Dollar Value - $50,000)</td>
</tr>
</tbody>
</table>

**TOTAL - OTHER NON-FEDERAL AWARDS** $1,513,906.00

**ENGINEERING EXPERIMENT STATION**

State Sponsored Research and Development

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$78,485.00</td>
<td>The Ohio Coal Development Office, Columbus, Ohio, for &quot;Agglomeration Column Flotation for Cleaning and Desulfurization of Ohio Coal Fines,&quot; under the direction of the department of Materials Science and Engineering for the period May 1, 1989 through August 1, 1990. (529810)</td>
</tr>
<tr>
<td>$40,000.00</td>
<td>The Edison Program, Columbus, Ohio, and Arcair, Columbus, Ohio, for &quot;Development of Underwater Shielded Metal-Arc Welding Electrode,&quot; under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (312511)</td>
</tr>
<tr>
<td>$2,500.00</td>
<td>The Ohio Department of Development, Columbus, Ohio, for &quot;UNESCO Conference,&quot; under the direction of the College Office, for the period May 1, 1989 through July 31, 1989. (529813)</td>
</tr>
</tbody>
</table>

**TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT** $120,985.00

Industrial and Other Sponsored Research and Development

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$74,414.00</td>
<td>B. F. Goodrich, Troy, Ohio, for &quot;Convection Heat Transfer Study,&quot; under the direction of the Department of Mechanical Engineering for the period May 10, 1989 through June 30, 1990. (529811)</td>
</tr>
<tr>
<td>$50,130.00</td>
<td>Teledyne Monarch Rubber Company, Hartville, Ohio, for &quot;Computer Modeling of Hydromounts,&quot; under the direction of the Department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (529809)</td>
</tr>
<tr>
<td>$41,524.00</td>
<td>Teledyne Monarch Rubber Company, Hartville, Ohio, for &quot;Design of Adaptive Hydromounts,&quot; under the direction of the Department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (529808)</td>
</tr>
<tr>
<td>$39,979.00</td>
<td>The American Foundrymen's Society, Inc., DesPlaines, Illinois, for &quot;Influence of Sand Surface Chemistry on Bonding,&quot; under the direction of the Department of Materials Science and Engineering for the period May 1, 1989 through May 1, 1990. (529806)</td>
</tr>
</tbody>
</table>
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$35,000.00 from B. F. Goodrich Aerospace, Uniontown, Ohio, for "Droplet Impingement Program," under the direction of the Department of Aeronautical and Astronautical Engineering for the period June 1, 1989 through May 31, 1990. (312512)

$23,967.00 from 33 sponsors of 42 development projects under the direction of three departments/research areas of the College.

$20,141.00 from Nippon Yakin Kogyo Co., Ltd., Tokyo Japan, for "Oxide Modification of Aluminum Bearing Stainless Steels using CO2 Laser Beams," under the direction of the department of Welding Engineering for the period May 19, 1989 through December 30, 1990. (312510)

$17,500.00 additional funding from General Electric, Cincinnati, Ohio, for "Lufthansa Engine Test Cell Model Study #2," under the direction of the Department of Aeronautical and Astronautical Engineering, for the period March 1, 1988 through December 31, 1989. (312449, Ext. 1)

$15,099.00 from BBN Advanced Computers, Cambridge, Mass., for "Port of Portable Common Loops to Butterfly Common LISP," under the direction of the Department of Computer and Information Science, for the period June 15, 1989 through December 31, 1989. (529814)

$14,000.00 additional budget from American Society of Mechanical Engineers, New York, NY, for "Editing Services -- Journal of Mechanisms, Transmission and Automation in Design," under the direction of the Department of Mechanical Engineering for the period December 1, 1987 through September 30, 1989. (312441, Ext. 1)

$2,550.00 additional funding from Battelle Columbus Division, Columbus, Ohio, for "Transport and Dosimetry Analysis Test Specimen Evaluation," under the direction of the Nuclear Reactor Laboratory for the period April 1, 1988 through November 30, 1989. (312460, Ext. 4)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $334,304.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

Ohio Eminent Scholar in High-Temperature Structural Materials

The Ohio Eminent Scholar in High-Temperature Structural Materials was established August 23, 1989, by the Board of Trustees of The Ohio State University with $500,000 awarded by the General Assembly of Ohio and a matching $500,000 from unrestricted gifts to the University.

The funds are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide salary and program support for the work of an outstanding scholar-leader in high-temperature structural materials. Appointment as the Ohio
Establishment of Named Funds (contd)

Ohio Eminent Scholar in High-Temperature Structural Materials (contd)

Eminent Scholar in High-Temperature Structural Materials will be recommended by the Dean of the College of Engineering to the Provost and President and approved by the Board of Trustees.

Should the need for this position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for education and research in metallurgical engineering. Any redirection of this endowment prior to ten years from the date established shall require the prior approval of the Ohio Board of Regents.

Ohio Eminent Scholar in Macromolecular Structure Determination

The Ohio Eminent Scholar in Macromolecular Structure Determination was established August 23, 1989, by the Board of Trustees of The Ohio State University with $500,000 awarded by the General Assembly of Ohio and a matching $500,000 from unrestricted gifts to the University.

The funds are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide salary and program support for the work of an outstanding scholar-leader in macromolecular structure determination. Appointment as the Ohio Eminent Scholar in Macromolecular Structure Determination will be recommended by the Dean of the College of Mathematical and Physical Sciences to the Provost and President and approved by the Board of Trustees.

Should the need for this position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for education and research in chemistry. Any redirection of this endowment prior to ten years from the date established shall require the prior approval of the Ohio Board of Regents.

Ohio Eminent Scholar in Protein Engineering

The Ohio Eminent Scholar in Protein Engineering was established August 23, 1989, by the Board of Trustees of The Ohio State University with $500,000 awarded by the General Assembly of Ohio and a matching $500,000 from unrestricted gifts to the University.

The funds are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
Establishment of Named Funds (contd)

Ohio Eminent Scholar in Protein Engineering (contd)

The annual income shall be used to provide salary and program support for the work of an outstanding scholar-leader in protein engineering. Appointment as the Ohio Eminent Scholar in Protein Engineering will be recommended by the Dean of the College of Biological Sciences to the Provost and President and approved by the Board of Trustees.

Should the need for this position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for education and research in biochemistry. Any redirection of this endowment prior to ten years from the date established shall require the prior approval of the Ohio Board of Regents.

Ford Motor Company - EEOC Scholarship
For Minorities and Women

The Ford Motor Company - EEOC Scholarship for Minorities and Women was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Ford Motor Company.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for minorities and women, with preference given to Ford Motor Company employees, their spouses and children. These scholarships are not to be restricted to any particular college or discipline. Scholarships are targeted primarily to students in undergraduate programs; however, at the University's discretion, scholarships may be awarded to students enrolled in the Graduate School. Awards for undergraduate students may be renewed up to three times but may be renewed only once for graduate students. Eligibility to continue in the program requires that all student participants meet the academic requirements established by the University. Awards may be expanded beyond tuition to include other expenses, such as: class textbooks, laboratory fees, room and board in campus facilities, mandatory admission fees or instructional fees. No recreational, sports or social activities are coverable, unless such fees are part of the degree requirement.

For those applicants who claim a Ford Motor Company connection, the University will require candidates to complete a verification form provided by Ford Motor Company. If no Ford Motor Company employees, their spouses or offspring apply, the University may use available funds for other minorities and women who apply for financial assistance. Scholarship recipients shall be chosen by the University Committee on Student Financial Aid.
Establishment of Named Funds (contd)

Ford Motor Company - EEOC Scholarship
For Minorities and Women (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Campbell Hall Building Fund

The Campbell Hall Building Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni and friends of the College of Human Ecology for the New Ventures, New Vision Campaign.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be added to the principal until the University makes a final determination on the financing arrangements of the Campbell Hall Building Additions Project. The College of Human Ecology reserves the right to invade the principal to cover building-related costs and fees following the final determination of the financing arrangements.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Henry County 4-H Endowment Fund

The Henry County 4-H Endowment Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from persons interested in the Henry County 4-H program.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The first $550 of annual income shall be used for the Henry County 4-H Scholarship, the recipient of which will be selected by a committee including a Henry County Extension Agent, a respected agricultural leader in Henry County and a representative of the Henry County 4-H Endowment Committee, in consultation with the University Committee on Student Financial Aid. Any distributable income above the amount of $550 will be applied to the purposes of the Henry County 4-H program at the direction of the Henry County 4-H Endowment Committee or its successor.
Establishment of Named Funds (contd)

The Henry County 4-H Endowment Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

The Sam Cashman Family 4-H Endowment Fund

The Sam Cashman Family 4-H Endowment Fund be established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from friends, relatives and colleagues of Sam Cashman (B.S.Agr. '41) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Under the administration of the State 4-H Leader or his/her designee in the State of Ohio 4-H Office, the annual income shall be used to support development of innovative ways to expand 4-H membership and to find more effective ways of attracting and keeping older youth (ages 13-18) in 4-H.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

75th Anniversary Scholarship Fund

The 75th Anniversary Scholarship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni, special friends, hospitals and other corporations in recognition of the College of Nursing's 75th anniversary.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide undergraduate nursing scholarships at The Ohio State University College of Nursing. Scholarship recipients shall be chosen by the Dean of the College of Nursing upon recommendation of the Director of Nursing Student Affairs and in consultation with the University Committee on Student Financial Aid.
Establishment of Named Funds (contd)

75th Anniversary Scholarship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

The S. Maurice Bostic and Birch S. M. Bostic Memorial Award Fund

The S. Maurice Bostic and Birch S. M. Bostic Memorial Award Fund was established August 23, 1989, in honor of S. Maurice Bostic, past president of the Columbus Trucking Company, Commercial Motor Freight, Inc. and Birch S. M. Bostic, grandson of S. Maurice Bostic, and member of the Sigma Chi fraternity, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Ohio Trucking Association and friends, family, and fraternity brothers of Birch S. M. Bostic.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more awards to the outstanding male member(s) of the baccalaureate graduating class of the College of Business. The award(s) shall be based on recognition of both academic excellence and outstanding leadership and shall be presented at the annual Pace Setters Banquet. The award recipient(s) shall be selected upon the recommendation of the College of Business Pace Setters Selection Committee with final approval by the Dean of the College of Business.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with a representative(s) of full-time students of The Ohio State University who are active members of the Sigma Chi fraternity and/or a representative(s) of the undergraduate full-time students of the College of Business, the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

The Robert A. Barnes Award for Exemplary Teaching

The Robert A. Barnes Award for Exemplary Teaching was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Robert A. Barnes (Ph.D., Education, ’63) of Newark, Ohio.
Establishment of Named Funds (contd)

The Robert A. Barnes Award
for Exemplary Teaching (contd)

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an award for exemplary teaching to be presented not more often than once each year to an Ohio State University faculty member with an annual, full-time teaching assignment at the University's campus at Newark, Ohio.

The recipient's name is to be engraved on an appropriate plaque to be presented to the individual and on another plaque to be permanently and prominently displayed at the Newark Campus. Both plaques shall bear the full name of the award.

At the option of the recipient, the award shall consist of one of the following:

A one-thousand-dollar cash prize

One thousand dollars worth of teaching-related travel provided by the University

One thousand dollars worth of teaching-related publications or equipment provided by the University for the recipient's teaching area -- such to remain property of the University.

The criteria and procedures for annual recipient selection and presentation shall be determined by the chief administrator of The Ohio State University at Newark, in consultation with the Newark Campus faculty.

The first presentation of this award will take place when the annual income reaches $1,000. If in future years the annual income consistently exceeds $1,000, the chief administrator of the Newark Campus can or may recommend to The Ohio State University Development Fund that the annual award be adjusted to a higher amount.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the chief administrator of the University's campus at Newark, Ohio, or, if such should no longer exist, the most appropriate University administrator.
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - July 1989

Federal Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Agency</th>
<th>Project Description</th>
<th>Principal Investigators</th>
<th>Dates</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>$979,559.00</td>
<td>Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Regional Resource Center, Education Administration (T. M. Stephens)</td>
<td>1 June 1989 through 31 May 1990. (Project 766183 - Continuation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$370,738.00</td>
<td>Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Neurobehavioral Deficit and Psychopathology in HIV+ Men, Department of Psychiatry (R. A. Bornstein and H. A. Nasrallah)</td>
<td>1 July 1989 through 30 June 1990. (Project 767581 - New)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$259,192.00</td>
<td>Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, In Situ T Cell Function in Rejecting Allografts, Department of Surgery (C. G. Orosz)</td>
<td>1 July 1989 through 30 June 1990. (Project 764493 - Continuation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$183,849.00</td>
<td>Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Immediate Early Gene Regulation in Herpes Simplex Virus, Department of Molecular Genetics (M. T. Muller)</td>
<td>1 July 1989 through 30 June 1990. (Project 767528 - New)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$157,557.00</td>
<td>Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Study of the Clinical Pharmacokinetics of Anti-Cancer Drugs, College of Pharmacy (L. Malspeis)</td>
<td>1 June 1989 through 31 May 1990. (Project 766139 - Continuation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$151,885.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Imidazoline Analogs as Probes of A-Adrenoceptors, College of Pharmacy (D. D. Miller, P. N. Patil, and D. R. Feller)</td>
<td>1 August 1989 through 31 July 1990. (Project 763483 - Continuation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$150,603.00</td>
<td>Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Molecular and Functional Analysis of Human Class 1 Heparin-Binding Growth Factor (HBGF), Department of Internal Medicine and Comprehensive Cancer Center (I. M. Chiu)</td>
<td>1 July 1989 through 30 June 1990. (Project 766083 - Continuation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$140,000.00</td>
<td>National Science Foundation, Washington, D.C., Liquid and Solid Helium at Very Low Temperatures, Department of Physics (D. O. Edwards)</td>
<td>15 July 1989 through 30 June 1990. (Project 767398 - New)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$138,869.00</td>
<td>Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Gastrointestinal Kallikrein and Renin Systems, Department of Physiology (P. E. Ward)</td>
<td>1 July 1989 through 30 June 1990. (Project 766971 - Continuation)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$136,425.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Coronary Phenotypic Modulation After Cardiac Transplant, Department of Anatomy (A. R. Strauch) and Department of Internal Medicine (R. C. Starling), 1 July 1989 through 30 April 1990. (Project 767634 - New)

$135,810.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, The Immune Complex-Mediated Glomerulopathies, Department of Internal Medicine (L. A. Hebert), 1 July 1989 through 30 June 1990. (Project 761786 - Continuation)

$132,817.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Cholinergic Systems and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) Neurotoxicity, Department of Pharmacology (N. H. Neff and M. H. Neff), 1 July 1989 through 30 June 1990. Project 766209 - Continuation)

$129,980.00 - National Science Foundation, Washington, D.C., Completion of Velocity Survey of Ice Stream B and Catchments of Ice Streams B and C, Byrd Polar Research Center and Department of Geology and Mineralogy (I. M. Whillans), 15 April 1988 through 30 September 1990. (Project 766672 - Continuation)

$126,084.00 - Department of Agriculture, Science and Education, Washington, D.C., New Uses for Agricultural Products, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (T. L. Sporleder and C. R. Zulauf), 1 July 1989 through 30 June 1990. (Project 767650 - New)

$124,721.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Localization of the Functional Domains on the Bacillus thuringiensis Delta-Endotoxin, Department of Biochemistry (D. H. Dean), 1 July 1989 through 30 June 1990. (Project 767596 - New)

$116,320.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Anterior Cruciate Ligament Reconstruction, Department of Mechanical Engineering (N. Berme) and Department of Surgery (S. R. Simon), 1 August 1989 through 31 July 1990. (Project 766933 - Continuation)

$115,619.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Effects of Father's Absence: Sociodemographic Analysis, Center for Human Resource Research (F. L. Mott), 1 July 1989 through 30 June 1990. (Project 766858 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$113,630.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Gastric Function -- Central Control, Department of Physiology (R. C. Rogers), 1 July 1989 through 30 June 1990. (Project 765541 - Continuation)

$112,686.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Salamander Limb Regeneration: Studies with Monoclonal Antibodies, Department of Molecular Genetics (R. A. Tassava), 1 July 1989 through 30 June 1990. (Project 766132 - Continuation)

$110,000.00 - National Science Foundation, Washington, D.C., Development of Screening Techniques for Aqueous Drag Reducing Surfactants and Its Utilization for Finding More Efficient Additive Systems, Department of Chemical Engineering (J. L. Zakin), 1 September 1989 through 30 April 1991. (Project 767676 - New)

$108,401.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Regulation of Macrophage Interleukin-1 Beta Production, Department of Internal Medicine (M. D. Wawers), 1 July 1989 through 30 June 1990. (Project 767518 - New)

$100,000.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Volunteers for Participation in Medical Research Projects, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 17 July 1989 through 16 July 1990. (Project 767666 - Continuation)

$96,000.00 - Department of Agriculture, Science and Education, Washington, D.C., A Multidisciplinary Ph.D. Fellowship Program in Water Science, Department of Agricultural Engineering (R. J. Gustafson), 1 September 1989 through 31 August 1994. (Project 767640 - New)

$90,530.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Determination of Proteins Associated with Dystrophin, Department of Physiological Chemistry and Department of Neurology (A. M. Burghes), 1 July 1989 through 30 June 1990. (Project 767635 - New)

$90,394.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cell-Mediated Immunity Regulation and Reinfection: Role of Contralymphokine, Oral Biology (J. F. Sheridan), 1 July 1989 through 30 June 1990. (Project 766852 - Continuation)

$85,400.00 - Department of Agriculture, Science and Education, Washington, D.C., Molecular Mechanisms of Geminivirus Replication, Biotechnology Program and Department of Molecular Genetics (D. M. Bisaro), 1 September 1989 through 31 August 1990. (Project 766350 - Continuation)

$85,000.00 - National Science Foundation, Washington, D.C., X-Ray Spectroscopy of Metal Centers in Respiratory Proteins, Department of Physiological Chemistry (J. O. Alben), 1 August 1989 through 31 July 1990. (Project 767637 - New)
Federal Research Contracts/Grants (contd)

$84,350.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver), 1 August 1989 through 31 July 1990. (Project 766385 - Continuation)

$83,158.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Catalytic Sites of Two Calmodulin-Dependent Enzymes, Department of Chemistry (M. M. King), 1 July 1989 through 30 June 1990. (Project 767619 - New)

$81,130.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Feline Retrovirus Associated Intestinal Dysfunction, Department of Veterinary Pathobiology (L. E. Mathes), 1 July 1989 through 30 June 1990. (Project 766909 - Continuation)

$80,647.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1989 through 30 June 1990. (Project 764737 - Continuation)

$80,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Role of Constitutive Isoflavone Conjugates in Soybean Resistance to Phytophthora, Department of Plant Pathology - OARDC and Department of Plant Pathology (T. L. Graham), 1 August 1989 through 31 July 1991. (Project 767639 - New)

$75,000.00 - National Science Foundation, Washington, D.C., Molecular Phylogeny and Evolution of Compositae of the Juan Fernandez Islands, Department of Botany (D. J. Crawford and T. F. Stuessy), 15 July 1989 through 30 June 1990. (Project 767622 - New)

$71,269.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Phase I and Clinical Pharmacokinetic Studies of Anticancer Agents, Comprehensive Cancer Center and Department of Internal Medicine (S. P. Balcerzak and B. Behrens) and College of Pharmacy (L. Malspeis), 1 June 1989 through 30 November 1989. (Project 764860 - Continuation)

$69,530.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Deoxyuridine Metabolism in Herpes Labialis, Department of Microbiology and Immunology (M. V. Williams), 1 July 1989 through 30 June 1990. (Project 764006 - Continuation)


$65,898.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Correlation of 3-D Coronary Axial Geometry and Pathology, Biomedical Engineering Center (M. H. Friedman), 1 July 1989 through 30 June 1990. (Project 766943 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$65,500.00 - National Science Foundation, Washington, D.C., Synthetic Catalysts Based on Reversible Covalent Bond Formation, Department of Chemistry (A. W. Czarnik), 15 June 1989 through 31 May 1990. (Project 767602 - New)

$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (D. L. Cox), 1 January 1990 through 31 December 1990. (Project 766937 - Continuation)

$61,996.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Molecular Organization of a Membrane Protein Complex, Department of Botany and Department of Biochemistry (R. T. Sayre), 1 July 1989 through 30 June 1990. (Project 766849 - Continuation)

$60,000.00 - National Science Foundation, Washington, D.C., Partial Oxidation of Methane to Methanol and Formaldehyde over Molybdenum-Oxide-Based Catalysts, Department of Chemical Engineering (U. Ozkan), 1 August 1989 through 31 July 1990. (Project 767675 - New)

$60,000.00 - National Science Foundation, Washington, D.C., Isomorphism Problems in Structural Complexity Theory, Department of Computer and Information Science (T. J. Long), 15 July 1989 through 30 June 1991. (Project 767543 - New)


$57,614.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Physiological Analysis of Optic Nerve Disease, College of Optometry (P. E. King-Smith), 1 August 1989 through 31 July 1990. (Project 763996 - Continuation)


$51,863.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Molecular Analysis of Exotoxin A from Pseudomonas aeruginosa, Department of Microbiology (D. R. Galloway), 1 June 1989 through 31 May 1990. (Project 766775 - Continuation)

$50,091.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Small Instrumentation Program, Medicine Administration (D. G. Cornwell), 15 July 1989 through 30 June 1990. (Project 767690 - New)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$49,982.00 - National Science Foundation, Washington, D.C., Expression of a Recombinant Protein Kinase, Department of Chemistry (M. M. King), 1 September 1989 through 31 August 1990. (Project 76657 - New)

$49,198.00 - National Science Foundation, Washington, D.C., Behavioral and Neural Plasticity in the Developing Brain, Department of Psychology (J. P. Bruno), 1 September 1989 through 28 February 1991. (Project 766304 - Continuation)

$48,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Food, Forest Products, or Agribusiness Marketing, Department of Agricultural Economics and Rural Sociology (J. Havlicek and D. R. Henderson), 1 September 1989 through 31 August 1994. (Project 767672 - New)

$45,926.00 - National Science Foundation, Washington, D.C., Econometric Models of Probabilistic Choice Over a Continuous Choice Set, Department of Economics (S. R. Cosslett), 1 July 1989 through 30 June 1990. (Project 767597 - New)

$45,737.00 - National Science Foundation, Washington, D.C., A Strontium, Oxygen, and Carbon Isotopic Study of Cenozoic Marine Biogenic Carbonate from Antarctica, Byrd Polar Research Center and Department of Geology and Mineralogy (P. N. Webb) and Department of Geology and Mineralogy (E. Barrera), 15 June 1989 through 31 May 1990. (Project 767669 - New)

$44,997.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Decentralized Control and Identification Experiments for the NASA Langley Research Center SCOLE (Spacecraft Control Laboratory Experiment Program), Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 October 1989 through 30 September 1990. (Project 765807 - Continuation)

$42,500.00 - National Science Foundation, Washington, D.C., Multilinear Analysis of Spectroscopic Data, Department of Statistics (S. E. Leurgans), 1 July 1989 through 30 June 1990. (Project 767631 - New)

$40,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Jet Noise Production and Radiation, Department of Aeronautical and Astronautical Engineering (J. N. Scott and R. J. Bodonyi), 29 June 1989 through 15 October 1989. (Project 767656 - New)

$33,665.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, DNA Diagnostic Probes for Acanthamoeba Keratitis, Department of Molecular Genetics (T. J. Byers), 15 July 1989 through 14 July 1990. (Project 767688 - New)

$30,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, ElectroScience Laboratory, Department of Electrical Engineering (R. Rudduck), 1 September 1989 through 31 August 1991. (Project 763724 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$30,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Substrate Recognition by Archaeobacterial tRNA Intron Processing Enzymes, Department of Microbiology (C. J. Daniels), 1 August 1989 through 30 November 1989. (Project 767661 - New)

$29,250.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Eustachian Tube Mucociliary Function in Otitis Media, Department of Otolaryngology (D. J. Lim and J. Coticchia), 1 July 1989 through 30 June 1990. (Project 767610 - New)

$29,192.00 - National Science Foundation, Washington, D.C., Collaborative Research: Fort Payne Formation Echinoderms: Systematics, Paleoeocology, and Regional Synthesis (Lower Mississippian, Midcontinental United States), Department of Geology and Mineralogy (W. I. Ausich), 1 September 1989 through 31 August 1990. (Project 767673 - New)

$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Linguistics (M. E. Beckman), 1 March 1990 through 28 February 1991. (Project 766861 - Continuation)

$24,500.00 - Department of the Interior, Geological Survey, Reston, Virginia, Ohio-Indiana Regional Aquifer System Analysis Project, Center for Mapping (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 767669 - New)


$19,000.00 - National Science Foundation, Washington, D.C., Construction and Study of Certain Infinite Dimensional Processes, Department of Mathematics (P. March), 15 July 1989 through 30 June 1991. (Project 767605 - New)

$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., Fault Tolerant Control Using Neural Nets for Large Flexible Space Structures, Department of Electrical Engineering (U. Ozguner), 1 August 1989 through 31 July 1990. (Project 767653 - New)

$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Aging and Diabetes: Coping with Chronic Illness, Department of Life Span Process (E. M. Burns), 1 September 1989 through 31 August 1990. (Project 767664 - New)

$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Interval Inspiratory Muscle Training in Chronic Obstructive Pulmonary Disease (COPD) Patients, Department of Family and Community Nursing (M. G. MacVicar), 1 July 1989 through 30 June 1990. (Project 767685 - New)

Federal Research Contracts/Grants (contd)

$9,500.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, ARMS -- An Acoustics-Based Resuspension Measurement System for In-Place Estimates of Entrainment and Erosion from Dredged Material Disposal Sites, Department of Civil Engineering (K. W. Bedford), 1 October 1988 through 30 September 1989. (Project 766710 - Continuation)

$1,750.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Acute Phase Reactants: Induction and Host Resistance, Department of Microbiology (R. F. Mortensen), 1 July 1989 through 30 June 1990. (Project 762354 - Continuation)

$629.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 June 1989 through 31 July 1989. (Project 767686 - Continuation)


TOTAL - FEDERAL AWARDS $6,902,130.00

State of Ohio Research Contracts/Grants

$853,866.63 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - C - Trade and Industrial Education Services, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767628 - Continuation)

$722,073.00 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - E - Instructional Materials Laboratory, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767630 - Continuation)

$643,726.86 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - D - Vocational Educational Services, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767629 - Continuation)

$482,787.74 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - B - Vocational Research, Survey, Evaluation, and Exemplary Programs, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767606 - Continuation)

$115,725.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Acquisition of a Research Vessel, Department of Zoology (B. Vondracek), 12 September 1988 through 30 June 1991. (Project 767054 - Continuation)

$104,344.00 - State of Ohio, Department of Education, Columbus, Ohio, Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. L. Mangum), 1 July 1989 through 30 June 1990. (Project 766869 - Continuation)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$101,319.96 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - A - Vocational Teacher Education, Department of Educational Studies: Humanities, Science, Technological, and Vocational (G. Jarvis), 1 July 1989 through 30 June 1990. (Project 767577 - Continuation)

$80,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1989 through 30 June 1990. (Project 767658 - Continuation)

$58,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Ecology and Population Dynamics of Lake Erie Fishes, Department of Zoology (B. Vondracek), 1 July 1989 through 30 June 1990. (Project 766201 - Continuation)

$57,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey), 1 July 1989 through 30 June 1990. (Project 766925 - Continuation)

$49,545.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Take a Break, Cooperative Extension Field Operations (C. J. Syracuse), 1 July 1989 through 30 June 1990. (Project 767604 - New)

$31,874.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Housing as Housing: The Relationship Between Housing Factors and Community Adaptation in Three Client Groups, Department of Life Span Process (L. C. Dzurec), 1 July 1989 through 30 June 1990. (Project 767371 - New)

$19,371.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Master Parenting, Cooperative Extension Field Operations (S. F. Joseph), 1 July 1989 through 30 June 1990. (Project 767584 - New)

$17,625.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Special Parenting, Cooperative Extension Field Operations (B. J. Wurzel), 1 July 1989 through 30 June 1990. (Project 767587 - Continuation)

$13,230.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Housing as Housing: The Relationship Between Housing Factors and Community Adaptation in Three Client Groups, Department of Life Span Process (L. C. Dzurec), 23 May 1989 through 31 August 1989. (Project 767534 - New)

$11,245.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (B. J. Gilbert), 1 July 1989 through 30 June 1990. (Project 767584 - New)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$10,443.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Latch Key 4-H Club, Cooperative Extension Field Operations, (R. P. Cripe), 1 July 1989 through 30 June 1990. (Project 767588 - New)

$7,619.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Parent Support Group, Cooperative Extension Field Operations (C. J. Syracuse), 1 July 1989 through 30 June 1990. (Project 767586 - New)

$3,500.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (C. S. Oliveri), 1 July 1989 through 30 June 1990. (Project 767583 - New)

TOTAL - STATE OF OHIO AWARDS $3,407,119.19

Industrial Research Contracts/Grants

$75,000.00 - Superconductive Components, Inc., Columbus, Ohio, Study of Superconductive Composites, Department of Physics (J. C. Garland), 1 April 1989 through 31 March 1991. (Project 767623 - New)

$70,254.00 - Pharmakinetics Laboratories, Inc., Baltimore, Maryland, A Long-Term Multicenter Glycemic Control Study, Department of Family Medicine (R. M. Guthrie), 1 July 1989 through 30 June 1990. (Project 767633 - New)

$56,400.00 - Merck, Sharp, and Dohme Research Laboratories, West Point, Pennsylvania, A Triple-Blind, Randomized Parallel Study Comparing SINEMET CR (50/200) with SINEMET 25/100 in Parkinson's Disease for Patients on No Prior Levodopa Therapy, Department of Neurology (G. W. Paulson), 1 May 1989 through 30 April 1990. (Project 767645 - New)


$27,849.54 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink), 1 July 1989 through 30 May 1990. (Project 767646 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$20,000.00 - Fidia, Abano Terme, Italy, GM1 as Potential Therapy for Neonatal Brain Damage, Department of Psychiatry and Department of Pharmacology (M. H. Neff) and Department of Pharmacology (N. H. Neff), 1 April 1989 through 31 March 1990. (Project 767663 - New)

$8,300.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka), 1 July 1989 through 31 July 1989. (Project 766088 - Continuation)

$3,900.00 - Septech, Wakefield, Rhode Island, A System for Realtime Automated Control of Preparative and Process HPLC Equipment, College of Pharmacy and Comprehensive Cancer Center (J. M. Jagadeesh), 20 June 1988 through 31 December 1989. (Project 766951 - Continuation)

$2,300.00 - Caremark Plus, San Bernardino, California, Patient Education and Clinical Management Services, Department of Internal Medicine (S. P. Balcerzak), 1 October 1988 through 31 March 1989. (Project 767279 - Continuation)

$1,800.00 - Lockheed Engineering and Science Company, Houston, Texas, Tethered Target Scattering Research, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr., E. K. Newman, and N. N. Wang), 26 May 1989 through 26 January 1991. (Project 767524 - Continuation)

Materials and Supplies - Superconductive Components, Inc., Columbus, Ohio, Fabrication of High Temperature Superconducting Films, Department of Physics (T. R. Lemberger), 1 March 1989 through 31 August 1989. (Project 767603 - New) (Approximate Dollar Value - $5,250)

TOTAL - INDUSTRIAL AWARDS $ 390,168.08

Other Non-Federal Research Contracts/Grants

$1,200,000.00 - Howard Hughes Medical Institute, Rockville, Maryland, Undergraduate Biological Sciences Education Initiative, Biological Sciences Administration (W. A. Jensen), 15 June 1989 through 31 August 1994. (Project 767627 - New)

$362,150.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1989 through 30 June 1990. (Project 760113 - Continuation)

$238,305.00 - Riverside Research Institute, New York, New York, Compact Range Analysis Research, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 1 August 1989 through 31 July 1990. (Project 767079 - Continuation)

$105,000.00 - American Cancer Society, Atlanta, Georgia, Leukemia Cell Differentiation: Epigenetic Therapeutics, Department of Physiological Chemistry and Comprehensive Cancer Center (R. W. Trewyn), 1 July 1989 through 30 June 1990. (Project 766163 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$100,196.00 - Muscular Dystrophy Association, New York, New York, Collaborative Investigation of Duchenne Dystrophy, Department of Neurology (J. R. Mendell), 1 March 1989 through 28 February 1990. (Project 761360 - Continuation)

$90,000.00 - The George Gund Foundation, Cleveland, Ohio, Development of a Sustainable Agriculture Education and Internship Program to Promote Soil and Water Conservation in Ohio, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards and B. R. Stinner), 1 July 1989 through 30 June 1992. (Project 767621 - New)

$75,000.00 - Metropolitan Life Foundation, New York, New York, Preparing Teacher Leaders to Assist Preservice and Beginning Teachers and Recruit Minorities into Teaching, Department of Educational Policy and Leadership (K. R. Howey and N. L. Zimpher), 1 September 1989 through 31 August 1990. (Project 767665 - New)

$45,296.00 - International Life Sciences Institute, Washington, D.C., Characterizations and Adjustments for the Effects of Dependencies in Risk Assessment, Department of Preventive Medicine (M. L. Moeschberger) and Department of Statistics (J. P. Klein), 1 June 1989 through 31 May 1990. (Project 767607 - New)


$40,000.00 - The Petroleum Research Fund, Washington, D.C., Photochemical Alkyne Activation by Dinuclear Organometallic Complexes, Department of Chemistry (B. E. Bursten), 1 September 1989 through 31 August 1991. (Project 767643 - New)

$39,750.00 - The Juvenile Diabetes Foundation International, New York, New York, Assessment of the Mechanisms that Regulate Glomerular Mesangial Fibronectin Accumulation, Department of Internal Medicine (F. G. Cosio), 1 September 1989 through 31 August 1990. (Project 767671 - New)

$36,256.00 - Boston University, Boston, Massachusetts, Principles for Machine/Human Compatibility in Manufacturing Systems, Department of Industrial and Systems Engineering (A. B. Bishop), 1 July 1989 through 30 June 1990. (Project 766000 - Continuation)

$35,000.00 - The National Council for Soviet and East European Research, Washington, D.C., Disadvantaged Groups and Backward Regions in the Soviet Union, Department of Geography (Y. Medvedkov) and Mershon Center for Education (O. Medvedkov), 1 July 1989 through 30 June 1990. (Project 767662 - Continuation)

$33,000.00 - American Heart Association, Dallas, Texas, Hydraulic Load in Congestive Heart Failure (CHF): Response to Vasodilator, Department of Internal Medicine (P. F. Binkley), 1 July 1989 through 30 June 1990. (Project 767638 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$30,000.00 - Parker B. Francis Foundation, Hanover, New Hampshire, Parker B. Francis Fellowship in Pulmonary Research, Department of Internal Medicine (J. E. Gadek and J. N. Allen), 1 July 1989 through 30 June 1990. (Project 767612 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Molecular Anatomy of Actin Assemblies in Smooth Muscle Cells, Department of Anatomy (A. R. Strauch), 1 July 1989 through 30 June 1990. (Project 767579 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Observation of Low-Density Lipoproteins (LDL) Metabolism in Vascular Endothelial Cells Exposed to Fluid Mechanical Forces, Department of Surgery (J. F. Cornhill), 1 July 1989 through 30 June 1990. (Project 767578 - New)

$19,993.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Mechanisms of Vagal Reflex Control of Circulation During Hypovolemia, Department of Veterinary Clinical Sciences (W. W. Muir Ill and E. R. Schertel), 1 July 1989 through 30 June 1990. (Project 767654 - New)

$19,900.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Antifibrillatory Effects of Inhalation Anesthetics Assessed Noninvasively Using Fluctuations in T-Wave Morphology, Department of Veterinary Clinical Sciences (W. W. Muir III), 1 July 1989 through 30 June 1990. (Project 767649 - New)

$19,000.00 - American Lung Association of Ohio, Columbus, Ohio, American Lung Association Research Training Fellowship, Department of Internal Medicine (P. M. Dorinsky), 1 July 1989 through 30 June 1990. (Project 767626 - New)

$18,716.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Mechanisms of Thrombosis with Lupus Anti-coagulants: Effect on Tissue Factor, Department of Pathology (J. T. Brandt), 1 July 1989 through 30 June 1990. (Project 767632 - New)

$18,000.00 - The Petroleum Research Fund, Washington, D.C., Cluster Ion Source Development for High Resolution Infrared Spectroscopy, Department of Chemistry (J. V. Coe), 1 September 1989 through 31 August 1991. (Project 767641 - New)

$18,000.00 - The Petroleum Research Fund, Washington, D.C., Chemistry of Strained Ring Compounds, Department of Chemistry (V. H. Rawal), 1 September 1989 through 31 August 1991. (Project 767642 - New)

$17,400.00 - American Lung Association of Ohio, Columbus, Ohio, American Lung Association Research Training Fellowship, Department of Internal Medicine (P. M. Dorinsky), 1 July 1989 through 30 June 1990. (Project 767626 - New)

$16,344.00 - Michigan State University, East Lansing, Michigan, Current Economic Conditions and Future Market Opportunities for Aquaculture in the North Central Region, Department of Natural Resources - OARDC and School of Natural Resources (J. A. Maxwell), 1 May 1989 through 30 April 1990. (Project 767546 - New)
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Combination Immuno-Chemotherapy for Malignant Glioma, Department of Pathology (R. F. Barth), 1 July 1989 through 30 June 1990. (Project 767684 - New)

$13,856.00 - Michigan State University, East Lansing, Michigan, Policy Impediments and Opportunities for Expanded Aquaculture in the North Central Region, Department of Natural Resources - OARDC and School of Natural Resources (D. W. Floyd), 1 May 1989 through 30 April 1990. (Project 767546 - New)

$10,680.00 - Texas A & M University, College Station, Texas, Radiolarian and Diatom Biostratigraphy and Paleoceanography of Sulu and Celebes, ODP Leg 124, Department of Geology and Mineralogy (P. N. Webb), 1 June 1989 through 1 October 1990. (Project 767668 - New)

$10,000.00 - Central Ohio Diabetes Association, Columbus, Ohio, Metabolic and Energy Assessment in Relatives of Black Noninsulin-Dependent Diabetes Mellitus (NIDDM) Patients, Department of Internal Medicine (K. Osei), 1 July 1989 through 30 June 1990. (Project 767652 - New)

$10,000.00 - University of California, Livermore, California, A Study for a Deployable Truss Structure, Department of Electrical Engineering (U. Ozguner), 12 July 1989 through 1 April 1990. (Project 767615 - New)

$7,600.00 - Central Ohio Diabetes Association, Columbus, Ohio, Influence of Dietary Fish Oils on the Plasma Lipids and Platelet Function of Diabetic Rabbits, Department of Physiological Chemistry (R. Panganamala), 1 July 1989 through 30 June 1990. (Project 767660 - New)


$3,100.00 - Central Ohio Diabetes Association, Columbus, Ohio, The Effect of Glycosylated Fibronectin on the Regulation of Human Mesangial Cell Fibronectin Synthesis, Department of Internal Medicine (S. Nahman), 1 April 1989 through 30 June 1990. (Project 767651 - New)

$1,260.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 December 1985 through 31 December 1995. (Project 765208 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $2,744,641.00
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

$53,492.00 from IBM, Endicott, New York, for "Computer-Aided Statistical Process Control," under the direction of the Department of Industrial and Systems Engineering for the period June 15, 1989 through December 31, 1989. (529807)

$15,000.00 from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529202)

$12,531.00 from 21 sponsors of 28 development projects in two research areas of the College of Engineering.

$10,477.00 in additional funding from Westinghouse Electric Company, Pittsburgh, PA, for "Terminal Box Evaluation," under the direction of the Department of Mechanical Engineering for the period May 11, 1988 through December 31, 1989. (312458, Ext. 1)

$10,000.00 from various industry for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$8,000.00 in additional funding from Ford Motor Company, Dearborn, Michigan, for "Noise and Transmission Error Testing," under the direction of the Department of Mechanical Engineering for the period March 1, 1988 through December 31, 1989. (312453, Ext. 1)

$(35,000.00) reduction in funding from Edison Welding Institute, Columbus, Ohio. Project ("Fracture Mechanics Analysis of Thermoplastics Welds) closed as of June 30, 1989. (529335)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 82,500.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Paul and Lucy Dale Kent Cancer Research Endowment Fund

The Paul and Lucy Dale Kent Cancer Research Endowment Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Paul and Lucy Dale Kent of Granville, Ohio.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support cancer research in the Arthur G. James Cancer Hospital and Research Institute as approved by the Director of the Arthur G. James Cancer Hospital and Research Institute and the Vice President for Health Services.
Establishment of Named Funds (contd)

The Paul and Lucy Dale Kent Cancer Research Endowment Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Director of the Arthur G. James Cancer Hospital and Research Institute and the Vice President for Health Services in order to carry out the desire of the donors.

The Marshall McDonald Scholarship Fund

The Marshall McDonald Scholarship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Marshall McDonald of Palo Alto, California.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students in Beekeeping Technology at the Agricultural Technical Institute. Recipients will be selected by a committee consisting of the Beekeeping Technology Coordinator, the Agricultural Business Division Chairperson, and the Financial Aid Coordinator, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University students in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Floyd B. Mellor Scholarship Fund

The Floyd B. Mellor Scholarship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Floyd B. Mellor, Killbuck, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to worthy students who are graduate associates in beef cattle research at the Ohio Agricultural Research and Development Center, Wooster, Ohio. Scholarship recipients shall be selected by the chairperson of the Department of Animal Science and the chairperson of the Graduate Studies Committee, in consultation with the University Committee on Student Financial Aid.
Establishment of Named Funds (contd)

The Floyd B. Mellor Scholarship Fund (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The John Weller Wuichet, Jr., and Norma Johns Wuichet Endowment Fund

The John Weller Wuichet, Jr., and Norma Johns Wuichet Endowment Fund was established August 23, 1989 by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John Weller Wuichet, Jr. (B.S.Bus.Adm. '34) and his wife, Norma Johns Wuichet (B.S.Ed. '34) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to assist selected departments or divisions in the College of The Arts in recruiting and retaining outstanding undergraduate and graduate students. Said income may be used for recruitment materials and events; recruitment/audition travel expenses required to bring outstanding prospective students to campus or to send faculty members to those students; student prizes or awards; and student travel grants to conferences, exhibits, or festivals for the purpose of presenting papers, performing, or exhibiting. Funds may also be used to provide undergraduate scholarships, graduate associateships, and fellowships.

The annual income shall be made available to the selected departments and divisions of the College of The Arts on an annual rotating basis in the following order commencing in the first year with Art, and following in alphabetical order in each succeeding year with Art Education, Dance, Music Education, and Theatre.

The specific activity selected for fund income use and, if necessary, the criteria required to select students are at the discretion of the respective department or division chairperson with appropriate consultation with faculty and approval of the Dean of the College of The Arts. Where financial aid (i.e., scholarships, fellowships, and associateships) is involved, decisions shall be made in consultation with the University Committee on Student Financial Aid. Financial need is not a necessary criterion; quality of student is.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department/division chairperson, or program administrative officer in order to carry out the desire of the donors.
Establishment of Named Funds (contd)

The Chhotey Lal and Mohra Devi Rustagi Memorial Lectureship Fund

The Chhotey Lal and Mohra Devi Rustagi Memorial Lectureship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Jagdish S. Rustagi, Chairperson, Department of Statistics, in memory of his parents, Chhotey Lal and Mohra Devi Rustagi.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of Statistics for honoraria and expenses incurred by visiting lecturer(s) to the Department of Statistics for giving a Chhotey Lal and Mohra Devi Rustagi Memorial Lecture each year. The expenditures of all income will be approved by the Chairperson of the Department of Statistics.

It is the desire of the donor that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

Change in Name and Description of Named Fund

Bob Evans Farms Inc., Hospitality Research Fund

The Hospitality Management Research Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Bob Evans Farms, Inc. The name and description were revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support faculty and graduate student research in the area of hospitality management in the Department of Human Nutrition and Food Management, College of Human Ecology, as authorized by the department chairperson with advice of the faculty.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Hospitality Management Programs or the Dean of the College of Human Ecology.
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds

Arthur E. Baggs Memorial Fund

The Arthur E. Baggs Memorial Fund was established February 14, 1961, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund in memory of Arthur E. Baggs (B.S.M.E. ’39). The description was changed May 4, 1989, and was further revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a scholarship to an outstanding undergraduate student with interest in pursuing a major in the ceramic arts with the equivalent of high school chemistry as a prerequisite. Suggested studies are to include investigation of basic vessel tradition of glaze chemistry, craftsmanship, and aesthetics. The selection of the recipient will be made by the ceramic faculty in consultation with the University Committee on Student Financial Aid. It is the donors' expressed desire to fund activities related to one of the following curricula in order of preference: industrial design, music, photography and cinema, art history.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Baker & Hostetler Law Library and Building Fund

The Mildred S. and Noel F. George Fund was established September 3, 1982, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Kaplan-Halpert Foundation of Cleveland, Ohio, through the generosity of Noel F. George ('32 Law), a trustee of the Foundation, on the occasion of his 50th anniversary of graduation from the College of Law. The name was changed to The Noel F. George - Baker & Hostetler Law Library Fund on February 7, 1986. The name was further changed to The Baker & Hostetler Law Library and Building Fund on June 3, 1988, and the description was further revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used at the discretion of the Dean of the College of Law for the activities of the Law Library in the College of Law and/or for the library addition to the Law Building. The Dean of the College of Law may, at his discretion, invade the principal for the library addition, if this is necessary to complete funding of the building project.
August 23, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

The Baker & Hostetler Law Library and Building Fund (contd)

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for legal education.

The H. P. Wolfe Chair in Accounting Fund

The H. P. Wolfe Chair in Accounting Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Wolfe Associates, Inc. The description was revised August 23, 1989. All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to support the search for and maintenance of the H. P. Wolfe Chair in Accounting. When the H. P. Wolfe Chaired Professor has been appointed, the annual income shall be used to provide salary and program support in the Academic Faculty of Accounting and Management Information Systems of the College of Business. Appointment to the H. P. Wolfe Chair is to be recommended by the Dean of the College of Business to the Provost and approved by the Board of Trustees. The holder will report annually to the donor's designees on the goals, objectives, and plans for the chair in the upcoming academic year. These yearly reports will describe also the use of all fund earnings, past and projected, over the same two-year period.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Business, in order to carry out the desire of the donor.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

The Robert K. Fox Professorship in Chemistry Fund

The Robert K. Fox Professorship in Chemistry Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed professorship with gifts designated for The Ohio State University College of Mathematical and Physical Sciences.

Income provided by the Foundation shall be used to enhance the salary and support the work of the Robert K. Fox Professor of Chemistry.

--0--
Employment of Architect/Engineer and Request for Construction Bids

Background

Ohio Stadium Turf Replacement

This project will remove the existing artificial playing surface and subbase in Ohio Stadium and install a grass playing surface, associated drainage system, and subbase.

Funds for this project are available from the Athletic Department. Construction costs are estimated at $950,000 and the total estimated project cost is $1,100,000.

North Athletic Complex Playing Fields

This project will create two soccer/lacrosse fields and two baseball fields with appropriate drainage west and south of the Woody Hayes Athletic Center.

Funds for this project are available from the Athletic Department. Construction costs are estimated at $800,000 and the total estimated project cost is $1,000,000.

(See Appendix X for maps, page 241.)

EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST CONSTRUCTION BIDS

Resolution No. 90-26

OHIO STADIUM TURF REPLACEMENT
NORTH ATHLETIC COMPLEX PLAYING FIELDS

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for Ohio Stadium Turf Replacement and North Athletic Complex Playing Fields projects.

WHEREAS the Ohio Stadium Turf Replacement project will remove the existing artificial playing surface and subbase and replace it with a new drainage system, subbase, and grass playing surface; and

WHEREAS the total estimated cost of this project is $1,100,000, with the estimated construction cost being $950,000, with funding provided from the Athletic Department; and

WHEREAS the North Athletic Complex Playing Fields project will create two soccer/lacrosse fields and two baseball fields west and south of the Woody Hayes Athletic Center; and

WHEREAS the total estimated cost of this project is $1,000,000, with the estimated construction cost being $800,000, with funding provided from the Athletic Department:

NOW THEREFORE
EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST CONSTRUCTION BIDS (contd)

OHIO STADIUM TURF REPLACEMENT
NORTH ATHLETIC COMPLEX PLAYING FIELDS (contd)

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, and that the fees for these services be negotiated between the firms selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix XI for a complete tabulation of bids on all projects and locator maps, page 245.) Amounts shown with an * include accepted alternates.)

Site Renovation and Bridge and Street Improvements, Phase I

The Site Renovation project will renovate the site bounded by Woodruff Avenue on the north, High Street on the east, College Road on the west and 17th Avenue on the south by installing plants, walls, plazas, planters, walks, lighting and drainage systems. Phase I of the Bridge and Street Improvements project will close 17th Avenue and convert it to a pedestrian mall and replace existing concrete walks on High Street from Woodruff to West 11th Avenue, including relocation of bus shelters and installation of new plantings and site furniture. Funds are provided from State capital appropriations (House Bill 810) and University funds. The estimated completion date is November 1989. These two projects were bid together as a package. The contracts awarded are as follows:

General Contract: Dugan and Meyers, Cincinnati, Ohio

Amount: $648,700.00
Estimate: $765,800.00

Electric Contract: Claggett Electric, Columbus, Ohio

Amount: $84,234.00
Estimate: $95,000.00

Total All Contracts: $732,934.00
August 23, 1989 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Site Renovation and Bridge and Street Improvements, Phase I (contd)

Contingency Allowance: $ 58,634.88 (8% of construction cost)
Total Project Cost: $793,600.00

Campbell Hall Laboratory Remodeling

This project will remodel a series of existing teaching and research laboratories used by the College of Human Ecology. Funds are provided from State capital appropriations (House Bills 870 and 810) and University funds. The estimated completion date is July 1990. The contracts awarded are as follows:

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Contractor</th>
<th>Location</th>
<th>Amount</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td>B. S. Contractors, Inc., Columbus, Ohio</td>
<td></td>
<td>$308,130.00</td>
<td>$367,494.00</td>
</tr>
<tr>
<td>Plumbing Contract</td>
<td>Stevens Painton Corp., Hilliard, Ohio</td>
<td></td>
<td>$166,550.00</td>
<td>$185,720.00</td>
</tr>
<tr>
<td>HVAC Contract</td>
<td>Farber Corporation, Columbus, Ohio</td>
<td></td>
<td>$185,200.00</td>
<td>$166,390.00</td>
</tr>
<tr>
<td>Electric Contract</td>
<td>Buckeye Electric Co., Dayton, Ohio</td>
<td></td>
<td>$128,309.00</td>
<td>$153,205.00</td>
</tr>
</tbody>
</table>

Total All Contracts: $788,189.00
Contingency Allowance: $ 44,617.64
(5.7% of construction cost)
Total Project Cost: $1,009,834.00

+ HVAC contract is in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-27

SITE RENOVATION
BRIDGE AND STREET IMPROVEMENTS, PHASE I
CAMPBELL HALL LABORATORY REMODELING

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to the lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Site Renovation and Bridge and Street Improvements, Phase I; and

WHEREAS the University determined that better bids would be received if these two project were bid as one; and

WHEREAS resolutions adopted by the Board of Trustees on July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids are received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Campbell Hall Laboratory Remodeling project:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Site Renovation and Bridge and Street Improvements, Phase I and the Campbell Hall Laboratory Remodeling projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Ratification of Request For Construction Bids and Acceptance of the Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix XII for a complete tabulation of bids on all projects and locator map, page 253.) Amounts shown with an * include accepted alternates.)

College Road Storm Sewer Extension

Heavy rains during the period of July 24-28 created serious storm water runoff and flooding in the College Road area of the central campus. Storm water backed up in the Wexner Center for the
Ratification of Request For Construction Bids and Acceptance of the Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background

College Road Storm Sewer Extension (contd)

recurrence of such flooding is by completing a portion of the sewer separation work for Mershon Auditorium, Weigel Hall, and the Wexner Center that was identified in the master sewer separation study undertaken in 1986 by the City of Columbus with assistance from the University.

Because of the need to complete this sewer expansion project prior to the opening of the Wexner Center and prior to the start of Autumn Quarter to minimize disruption on College Road, plans and specifications for this emergency project were developed by the University Architect's Office and the Department of Physical Facilities, and the project was bid on August 15, with an expected completion date of September 15.

The project will install a new 30-inch storm sewer from an existing manhole near the southwest corner of the Wexner Center to run in a southerly direction in the College Road right-of-way to an existing 93-inch interceptor sewer located midway between 12th Avenue and Hagerty Drive. This project also will extend an existing 20-inch water main from College Road and 17th Avenue to College Road and 12th Avenue. The total project cost is $249,468.00; funding is provided from University funds.

The contract awarded is as follows:

General Contract: Concrete Construction, Columbus, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>$216,000.00*</td>
<td>$350,000.00*</td>
</tr>
</tbody>
</table>

Contingency Allowance: $10,800.00

Total Project Cost: $249,468.00*
RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND
ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

COLLEGE ROAD STORM SEWER EXTENSION (contd)

WHEREAS the project will install a new 30-inch storm sewer to serve this area; and

WHEREAS the project was bid as an emergency so that it could be completed prior to the opening of the Wexner Center and prior to the start of Autumn Quarter:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby ratifies and approves action taken by the President and/or Vice President for Business and Administration to request construction bids and award contracts on the College Road Storm Sewer Expansion project in accordance with established University procedures and hereby accepts the report of award of contracts for this project.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

EASEMENT
OHIO POWER COMPANY

Resolution No. 90-29

Synopsis: The Fiscal Affairs Committee recommended the authorization to grant an electric easement to The Ohio Power Company is requested.

WHEREAS the Ohio Power Company has requested a three-year easement consisting of a strip of land approximately 10 feet in width and approximately 368 feet in length for the installation of temporary parking lot lights on the east side of Adena Hall at the Newark Regional Campus; and

WHEREAS the electric service will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XIII for map, page 257.)

--0--
August 23, 1989 meeting, Board of Trustees

Beechwold Medical Center, Columbus, Ohio

Background

Location and Description

The property consists of approximately 1.5 acres located at 4808 North High Street, Columbus, Ohio. The site includes a two-story medical center building of brick construction built in 1952. The building is in excellent condition and contains 4,747 square feet of usable space.

Use of the Property

The University wishes to enter into a lease of this property for the purpose of fulfilling the teaching, research, and service missions of University Hospitals by providing an additional site for primary medical care.

Valuation and Terms of the Lease

The University proposes to lease the site from Beechwold Medical Center, Inc., for an initial term of five years, with five one-year renewal options. Based on an examination of the local market by the University's Office of Property Management in May 1988, fair market rent for this facility is in the range of $9.00 to $10.50 per square foot on a triple net basis. The proposed rental rate would be within this range. The equipment was valued at $88,910 by A-R-M Appraisal Services in December 1988, and would be purchased for this amount. The receivables would be purchased at 93% of the valuation established by Ernst & Whinney as of the date of purchase. The estimated valuation was $225,000 in June 1988.

Terms of the Management Agreement

The University would cause to be formed a professional corporation. Manuel Tzagournis, M.D., in his official capacity as Dean of the College of Medicine, would own the single share of the corporation and would then transfer the share in trust to himself in his official capacity as Dean to be held for the benefit of the University.

The University would enter into a service agreement with the professional corporation for physician services, with the University serving as business manager. The professional corporation would employ physicians through a contracting physicians agreement. The term of the agreement would be three years, renewable for two years, and thereafter year to year. Consideration of approximately $500,000 would be paid in the first three years with a base salary component escalating six percent a year and the balance depending on private patient care revenues. A non-competition clause would be included.

(See Appendix XIV for map, page 259.)

BEECHWOLD MEDICAL CENTER, COLUMBUS, OHIO

Resolution No. 90-30

Synopsis: The Fiscal Affairs Committee recommended authorization to lease real property, purchase assets, manage and enter into an agreement with a professional corporation to provide patient care at the Beechwold Medical Center; and authorization for Manuel Tzagournis, M.D., Dean of the College of Medicine, to form a professional corporation and enter into a trust agreement for the benefit of The Ohio State University.
WHEREAS The Ohio State University Hospitals Board has determined that additional sites for primary patient care are needed to fulfill the teaching, research and service missions of The Ohio State University Hospitals; and

WHEREAS the property known as the Beechwold Medical Center, located at 4808 North High Street in Columbus, Ohio, is available for lease and the physician group practicing at the site is willing to enter into an agreement to provide physician services with a professional corporation to be managed by The Ohio State University; and

WHEREAS the appropriate University officers and the Executive Committee of the Hospitals Board at their January 26, 1989 meeting have determined that such an arrangement is in the best interests of the University:

NOW THEREFORE

BE IT RESOLVED, That the President and/or the Vice President for Business and Administration, in consultation with the Vice President for Health Services and with the advice of legal counsel, be authorized to negotiate the terms of and enter into such agreements as are necessary to lease the Beechwold Medical Center, acquire assets, provide physician services there through a professional corporation and enter into an agreement to manage the Center; and

BE IT FURTHER RESOLVED, That Manuel Tzagournis, Dean of the College of Medicine, be authorized and directed to form a professional corporation, to be its sole shareholder, and to transfer its shares to himself as trustee for the benefit of the University, all in his official capacity as Dean. In carrying out this mandate the Dean, acting as part of his official responsibility to The Ohio State University, is entitled to any insurance or indemnity protection to which officers and employees of the University now are or hereafter may be entitled; and

BE IT FURTHER RESOLVED, That this resolution shall constitute formal direction to the Dean of the College of Medicine to cause the professional corporation to be formed, to subscribe to and hold its shares, and to transfer the same to himself as Dean in his official capacity to be held for the benefit of the College of Medicine of The Ohio State University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

EXPRESSION OF APPRECIATION

WHEREAS Chancellor William B. Coulter of the Ohio Board of Regents has expressed his intention to retire effective December 31, 1989; and

WHEREAS Chancellor Coulter has had a long and distinguished career with the Ohio Board of Regents, beginning with its founding in 1963; and

WHEREAS he has served the State of Ohio, the colleges and universities in Ohio and The Ohio State University well in his work with the Ohio Board of Regents and the Inter-University Council; and
August 23, 1989 meeting, Board of Trustees

EXPRESSION OF APPRECIATION (contd)

WHEREAS The Ohio State University is indebted to Chancellor Coulter’s commitment to accessible higher education and his leadership with the Selective Excellence programs:

NOW THEREFORE

BE IT RESOLVED, That The Ohio State University Board of Trustees expresses its appreciation to Chancellor Coulter for his dedication to education in Ohio and wishes him and his wife, Virginia, great success with all future endeavors.

Mr. Berry:

Very good. I think it is very deserved and we will miss him.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

Thereupon the Board adjourned to meet Friday, October 6, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

John W. Berry
Chairman
APPENDIX VI

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
July 21, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees August 23, 1989
(See page 143)
THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
July 21, 1989

Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>Percent of Equity and Fixed Income</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>06-30-89</td>
<td>07-21-89</td>
</tr>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$ 34,629,320</td>
<td>$ 36,539,399</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>11,475,663</td>
<td>12,586,575</td>
</tr>
<tr>
<td>Siebel</td>
<td>32,173,227</td>
<td>33,111,826</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>13,552,018</td>
<td>14,106,335</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>80,168,113</td>
<td>76,814,379</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$171,998,341</td>
<td>$173,158,514</td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatmen's Trust</td>
<td>$ 23,841,580</td>
<td>$ 23,707,578</td>
</tr>
<tr>
<td>Cambridge</td>
<td>951,048</td>
<td>945,535</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>10,243,208</td>
<td>10,299,005</td>
</tr>
<tr>
<td>STM Fixed Income</td>
<td>24,150,270</td>
<td>24,013,830</td>
</tr>
<tr>
<td>OSU - G28A</td>
<td>10,144,887</td>
<td>10,186,984</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,465,211</td>
<td>10,464,467</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$ 75,795,624</td>
<td>$ 79,617,399</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$247,794,545</td>
<td>$252,775,913</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$ 39,503,844</td>
<td>$ 39,502,388</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$287,298,389</td>
<td>$292,278,281</td>
</tr>
</tbody>
</table>
### Estimated Weighted Average Yield of Endowment Fund

#### Equity:

<table>
<thead>
<tr>
<th>Security</th>
<th>% Yield</th>
<th>% Change in Market Value</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.56%</td>
<td>17.35%</td>
<td>20.91%</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.64%</td>
<td>21.77%</td>
<td>23.41%</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>4.79%</td>
<td>18.97%</td>
<td>23.76%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>2.92%</td>
<td>19.75%</td>
<td>22.67%</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>5.53%</td>
<td>12.43%</td>
<td>17.96%</td>
</tr>
<tr>
<td>Standard &amp; Poor’s Index</td>
<td>3.65%</td>
<td>23.47%</td>
<td>27.12%</td>
</tr>
</tbody>
</table>

#### Real Estate:

<table>
<thead>
<tr>
<th>Security</th>
<th>% Yield</th>
<th>% Change in Market Value</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond (Boatmen’s Trust)</td>
<td>8.34%</td>
<td>11.26%</td>
<td>19.60%</td>
</tr>
<tr>
<td>Bonds (Cambridge)</td>
<td>8.21%</td>
<td>4.03%</td>
<td>12.24%</td>
</tr>
<tr>
<td>Bonds (Duff &amp; Phelps)</td>
<td>8.15%</td>
<td>4.23%</td>
<td>12.38%</td>
</tr>
<tr>
<td>Bonds (STW Fixed Income)</td>
<td>9.16%</td>
<td>10.45%</td>
<td>19.61%</td>
</tr>
<tr>
<td>Bonds (OSU - GNMA)</td>
<td>9.89%</td>
<td>3.05%</td>
<td>12.94%</td>
</tr>
<tr>
<td>Bonds (OSU Managed)</td>
<td>8.73%</td>
<td>(1.80)%</td>
<td>6.93%</td>
</tr>
<tr>
<td>Merrill Lynch Corporate/ Government Master</td>
<td>8.75%</td>
<td>5.36%</td>
<td>14.11%</td>
</tr>
</tbody>
</table>

(1) 0.0% of Chicago Corp. portfolio is made up of cash and cash equivalents.
(2) 1.1% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.3%.
(3) 44.1% of Siebel portfolio is made up of cash and cash equivalents which earn 9.0%.
(4) 61.1% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.0%.
(5) 10.5% of Boatmen’s Trust portfolio is made up of cash and cash equivalents which earn 8.9%.
(6) 100.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.3%.
(7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.3%.
(8) 0.9% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.3%.
(9) 1.4% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.3%.
(10) 95.6% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.0%.
(11) Not able to compare 12 months.
(12) Endowment Fund Income through July 31, 1989, totaled approximately $1,794,000.
(13) Income from University Cash Investments through July 31, 1989, totaled approximately $823,000.

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>07-21-89</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-89)</td>
<td>$287,298,389</td>
<td>Equities</td>
<td>$111,494,308</td>
<td>38.15%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>17,350</td>
<td>Fixed Income</td>
<td>65,688,789</td>
<td>22.47</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(25,000)</td>
<td>Real Estate</td>
<td>39,395,000</td>
<td>13.48</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>4,987,542</td>
<td>Cash</td>
<td>75,700,184</td>
<td>25.90</td>
</tr>
</tbody>
</table>

### Current Market Value

| Current Market Value | Total Portfolio | $292,278,281 | 100.00% |

219
**Maturities That Occurred During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Real Estate**

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>


## Common & Preferred Stock

### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,000</td>
<td>Schulman (A), Inc.</td>
<td>Chicago</td>
<td>28.7500</td>
<td>$172,500.00</td>
<td>$2,880.00</td>
</tr>
<tr>
<td>6,900</td>
<td>Banc One Corp.</td>
<td>Nicholas-Applegate</td>
<td>35.9232</td>
<td>$248,283.90</td>
<td>$7,176.00</td>
</tr>
<tr>
<td>6,800</td>
<td>Kemper Corp.</td>
<td>&quot;</td>
<td>39.3050</td>
<td>$267,682.00</td>
<td>$5,712.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Liz Claiborne, Inc.</td>
<td>&quot;</td>
<td>24.2107</td>
<td>$242,107.50</td>
<td>$1,700.00</td>
</tr>
<tr>
<td>1,800</td>
<td>Transco Energy Co.</td>
<td>&quot;</td>
<td>48.0601</td>
<td>$86,616.20</td>
<td>$2,448.00</td>
</tr>
<tr>
<td>100</td>
<td>Motorola, Inc.*</td>
<td>OSU</td>
<td>55.6250</td>
<td>$5,562.50</td>
<td>$64.00</td>
</tr>
<tr>
<td>72,400</td>
<td>Beverly Enterprises, Inc.</td>
<td>Siebel</td>
<td>8.3355</td>
<td>$607,832.60</td>
<td>0.00</td>
</tr>
</tbody>
</table>

$1,630,584.70 $19,980.00

* Gift.
### The Ohio State University
#### Common & Preferred Stock

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,400</td>
<td>New England Business Service, Inc.</td>
<td>Chicago</td>
<td>20.0000</td>
<td>$48,000.00</td>
<td>$(2,400.00)</td>
</tr>
<tr>
<td>6,500</td>
<td>Applied Biosystems, Inc.</td>
<td>Nicholas-Applegate</td>
<td>31.9250</td>
<td>207,512.50</td>
<td>$(27,908.50)</td>
</tr>
<tr>
<td>13,600</td>
<td>Computer Associates International, Inc.</td>
<td></td>
<td>17.6663</td>
<td>239,438.13</td>
<td>38,206.33</td>
</tr>
<tr>
<td>2,100</td>
<td>MCI Communications Corp.</td>
<td></td>
<td>38.6250</td>
<td>81,112.50</td>
<td>49,913.84</td>
</tr>
<tr>
<td>3,300</td>
<td>Merck &amp; Co., Inc.</td>
<td></td>
<td>67.0679</td>
<td>221,118.61</td>
<td>5,968.51</td>
</tr>
<tr>
<td>3,000</td>
<td>Tandem Computers, Inc.</td>
<td></td>
<td>18.0500</td>
<td>53,968.19</td>
<td>$(4,848.03)</td>
</tr>
<tr>
<td>87</td>
<td>Allied Signal, Inc.*</td>
<td>OSU</td>
<td>35.8750</td>
<td>3,092.31</td>
<td>9.25</td>
</tr>
<tr>
<td>765</td>
<td>Evergreen Total Return Fund*</td>
<td></td>
<td>18.8800</td>
<td>14,441.29</td>
<td>968.46</td>
</tr>
<tr>
<td>48</td>
<td>Insured MST Municipal Bond Sec. Trust Fund*</td>
<td></td>
<td>569.5800</td>
<td>27,339.84</td>
<td>1,684.03</td>
</tr>
<tr>
<td>1,198</td>
<td>Ohio Banc Corp.*</td>
<td></td>
<td>42.2500</td>
<td>50,615.50</td>
<td>6,888.50</td>
</tr>
<tr>
<td>5,277</td>
<td>Standard Products Co.*</td>
<td></td>
<td>29.1250</td>
<td>153,437.50</td>
<td>74.69</td>
</tr>
<tr>
<td>100</td>
<td>Union Pacific Corp.*</td>
<td></td>
<td>72.7500</td>
<td>7,239.75</td>
<td>1,110.55</td>
</tr>
<tr>
<td>3,500</td>
<td>United Airlines Corp.</td>
<td>Siebel</td>
<td>146.3300</td>
<td>$511,892.92</td>
<td>$91,829.92</td>
</tr>
</tbody>
</table>

### Gain/Loss ($1,619,209.04) ($161,497.55)

* Gift.
<table>
<thead>
<tr>
<th>Per Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Ohio State University
Bonds/Notes
The Ohio State University
Bonds/Notes

Bonds

Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss)</th>
<th>On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>840,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>Cambridge</td>
<td>108.7187</td>
<td>$913,237.50</td>
<td>$913,237.50</td>
<td>$5,250.00</td>
</tr>
</tbody>
</table>
### The Ohio State University Endowment Fund

#### Real Estate Investments

<table>
<thead>
<tr>
<th>Yield</th>
<th>Acquired</th>
<th>Invested</th>
<th>Appraised Value</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 930 Kensington Road</td>
<td>10.46%</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,400,000</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kensington Road</td>
<td>12.00%</td>
<td>1984</td>
<td>825,000</td>
<td>1,900,000</td>
</tr>
<tr>
<td>Building and 2.635 acres at 1900 Kenny Road</td>
<td>10.47%</td>
<td>1981</td>
<td>659,930</td>
<td>1,150,000</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>8.80%</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,300,000</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>3.18%</td>
<td>1968</td>
<td>170,000</td>
<td>570,000</td>
</tr>
<tr>
<td>46.904 acres of Land in Delaware County</td>
<td>.00</td>
<td>1971</td>
<td>100,793</td>
<td>157,000</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>.00</td>
<td>1975</td>
<td>31,333 (1)</td>
<td>31,333</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00%</td>
<td>1978</td>
<td>76,035 (1)</td>
<td>76,035</td>
</tr>
<tr>
<td>94.6 acres of land on Harrisburg Pike</td>
<td>.00</td>
<td>1986</td>
<td>190,000</td>
<td>250,000</td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>.00</td>
<td>1962</td>
<td>160,265</td>
<td>2,762,000</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>.00</td>
<td>1972</td>
<td>344,306</td>
<td>4,124,000</td>
</tr>
<tr>
<td>76.145 acres of land, 3253 West Granville Road</td>
<td>.40</td>
<td>1968</td>
<td>510,558</td>
<td>6,472,000</td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>.00</td>
<td>1971</td>
<td>265,079</td>
<td>2,596,000</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>.00</td>
<td>1986</td>
<td>2,076,666</td>
<td>2,720,000</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>.00</td>
<td>1965</td>
<td>24,000</td>
<td>1,020,000</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>.00</td>
<td>1968</td>
<td>17,114</td>
<td>727,000</td>
</tr>
<tr>
<td>Undivided one-half interest in building and land</td>
<td>.00</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
</tr>
<tr>
<td>.65 acres at 3375 South Hamilton Road</td>
<td>.00</td>
<td>1978</td>
<td>241,884</td>
<td>950,000</td>
</tr>
<tr>
<td>20.988 acres of land on Shier-Ringe Road</td>
<td>.00</td>
<td>1978</td>
<td>241,884</td>
<td>950,000</td>
</tr>
<tr>
<td>17.92 acres of land on Eiterman Road</td>
<td>3.73%</td>
<td>1978</td>
<td>25,135</td>
<td>725,000</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>5.67%</td>
<td>1979</td>
<td>3,767,263</td>
<td>6,460,000</td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Solicitations
Date: July 31, 1989
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of July 1989, the University voted ten proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Approval of a 1989 stock option plan for non-employee directors;
3) Ratification of independent auditors;
4) To fix the number of Directors;
5) Increase authorized common stock;
6) Increase the number of shares of common stock available for stock option plans;
7) Increase authorized serial preferred stock;
8) Approval to reincorporate from Delaware to Ohio;
9) Approval of a 1989 stock Incentive plan and the reservation of shares for a restricted rights plan;
10) Amendment to an existing combined stock option plan;
11) Ratification of the distribution of all shares of a new corporation that was formerly a division of the company;
12) Approval of a 1989 employee Incentive plan.

Shareholder proposals were as follows:

1) Require that the independent auditors be submitted for shareholder approval.

The University voted with Management on all issues and against the shareholder proposal, which Management also opposed.
The ten corporations were:

1) Bob Evans Farms, Incorporated
2) Carter-Wallace
3) Community Psychiatric Centers
4) Computer Associates International Incorporated
5) Computer Sciences Corporation
6) The J.M. Smucker Company
7) Loral Corporation
8) NCH Corporation
9) Webster Industries Incorporated
10) Wetterau Incorporated
APPENDIX VII

STATUS REPORT ON THE OHIO STATE UNIVERSITY ENDOWMENT FUNDS AND THE OHIO STATE UNIVERSITY FOUNDATION ENDOWMENT FUNDS

June 30, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees August 23, 1989
(See page 143)
<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>College</th>
<th>Amount Required for Full Funding</th>
<th>Book Value</th>
<th>Market Value</th>
<th>Holder of Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 1, 1985</td>
<td>Anderson's Chair in Agricultural Marketing, Trade and Policy</td>
<td>Agriculture</td>
<td>$750,000</td>
<td>$978,969</td>
<td>$1,403,181</td>
<td>Luther G. Tweeten</td>
</tr>
<tr>
<td>Feb. 3, 1978</td>
<td>Bailey Chair in Energy Conversion</td>
<td>Engineering</td>
<td>600,000</td>
<td>594,933</td>
<td>1,382,965</td>
<td>Robert H. Eschenhagl</td>
</tr>
<tr>
<td>May 5, 1988</td>
<td>Cramblett Chair in Medicine</td>
<td>Medicine</td>
<td>600,000</td>
<td>700,000</td>
<td>771,400</td>
<td>Vacant</td>
</tr>
<tr>
<td>Dec. 15, 1976</td>
<td>Davis Chair in American Free Enterprise</td>
<td>Business</td>
<td>600,000</td>
<td>671,704</td>
<td>1,449,517</td>
<td>Donald L. Saxton</td>
</tr>
<tr>
<td>June 8, 1978</td>
<td>Davis Chair in Medicine</td>
<td>Medicine</td>
<td>750,000</td>
<td>1,047,544</td>
<td>2,240,544</td>
<td>Donald L. Fry</td>
</tr>
<tr>
<td>Sept. 13, 1965</td>
<td>Doan Chair of Medicine</td>
<td>Medicine</td>
<td>(1)</td>
<td>187,396</td>
<td>429,339</td>
<td>Earl M. Metz</td>
</tr>
<tr>
<td>Oct. 12, 1966</td>
<td>Fawcett Chair in Educational Administration</td>
<td>Education</td>
<td>(1)</td>
<td>385,238</td>
<td>773,021</td>
<td>Vacant</td>
</tr>
<tr>
<td>Mar. 3, 1978</td>
<td>Galbreath Chair in Real Estate</td>
<td>Business</td>
<td>600,000</td>
<td>1,074,587</td>
<td>2,431,765</td>
<td>Patrik H. Hendershott</td>
</tr>
<tr>
<td>July 11, 1980</td>
<td>Haas Chair in Food Industries</td>
<td>Agriculture</td>
<td>750,000</td>
<td>1,258,876</td>
<td>1,900,357</td>
<td>Vacant</td>
</tr>
<tr>
<td>June 7, 1985</td>
<td>Immske Chair in Cancer Research</td>
<td>Medicine</td>
<td>1,250,000</td>
<td>1,250,000</td>
<td>1,536,875</td>
<td>Vacant</td>
</tr>
<tr>
<td>Sept. 9, 1977</td>
<td>Kiplinger Chair in Floriculture</td>
<td>Agriculture</td>
<td>600,000</td>
<td>874,548</td>
<td>1,026,185</td>
<td>Vacant</td>
</tr>
<tr>
<td>Feb. 3, 1971</td>
<td>Kiplinger Chair in Public Affairs Reporting</td>
<td>Soc./Behav. Science</td>
<td>(1)</td>
<td>1,122,805</td>
<td>2,104,064</td>
<td>John F. Wicklein</td>
</tr>
<tr>
<td>Nov. 7, 1975</td>
<td>Klassen Chair of Thoracic Surgery</td>
<td>Medicine</td>
<td>600,000</td>
<td>582,434</td>
<td>1,353,341</td>
<td>P. David Myrowitz</td>
</tr>
<tr>
<td>Sept. 7, 1973</td>
<td>Kurtz Chair in Endocrinology</td>
<td>Medicine</td>
<td>600,000</td>
<td>193,147</td>
<td>370,240</td>
<td>Samuel Cataland</td>
</tr>
<tr>
<td>Sept. 6, 1974</td>
<td>Kurtz Chair in Neurology</td>
<td>Medicine</td>
<td>600,000</td>
<td>173,157</td>
<td>333,045</td>
<td>George W. Paulson</td>
</tr>
<tr>
<td>Feb. 1, 1980</td>
<td>McConnell Chair in Aviation</td>
<td>Engineering</td>
<td>750,000</td>
<td>1,018,248</td>
<td>1,212,393</td>
<td>Vacant</td>
</tr>
<tr>
<td>May 7, 1971</td>
<td>Melting Chair of Osteetrics &amp; Gynecology</td>
<td>Medicine</td>
<td>(1)</td>
<td>330,852</td>
<td>694,071</td>
<td>Frederick P. Zuspan</td>
</tr>
<tr>
<td>July 8, 1965</td>
<td>Melton Chair of Jewish History</td>
<td>Humanities</td>
<td>(1)</td>
<td>500,000</td>
<td>1,115,810</td>
<td>Jeremy Cohen</td>
</tr>
<tr>
<td>Sept. 3, 1982</td>
<td>Overstreet Chair in Cardiology</td>
<td>Medicine</td>
<td>750,000</td>
<td>784,939</td>
<td>1,394,459</td>
<td>Carl V. Leier</td>
</tr>
<tr>
<td>Jan. 9, 1976</td>
<td>Pomerene Chair in Medicine</td>
<td>Medicine</td>
<td>600,000</td>
<td>784,873</td>
<td>1,504,196</td>
<td>Henry G. Cramblett</td>
</tr>
<tr>
<td>Feb. 8, 1968</td>
<td>Reese Chair of Banking &amp; Economics</td>
<td>Business</td>
<td>(1)</td>
<td>510,003</td>
<td>1,113,928</td>
<td>Edward J. Kane</td>
</tr>
<tr>
<td>Feb. 9, 1967</td>
<td>Riklis Chair in Business</td>
<td>Business</td>
<td>(1)</td>
<td>273,750</td>
<td>225,000</td>
<td>Rene M. Stults</td>
</tr>
<tr>
<td>Dec. 9, 1982</td>
<td>Staub Chair for Research in Ophthalmology</td>
<td>Medicine</td>
<td>750,000</td>
<td>479,218</td>
<td>658,530</td>
<td>Vacant</td>
</tr>
<tr>
<td>May 7, 1971</td>
<td>Wing Chair of Cancer Research</td>
<td>Medicine</td>
<td>(1)</td>
<td>1,000,000</td>
<td>2,222,803</td>
<td>John G. Boutsellis</td>
</tr>
<tr>
<td>June 2, 1989</td>
<td>Wolfe Chair in Accounting</td>
<td>Business</td>
<td>1,250,000</td>
<td>766,249</td>
<td>836,867</td>
<td>Vacant</td>
</tr>
<tr>
<td>Jan. 12, 1962</td>
<td>Zollinger Chair of Surgery</td>
<td>Medicine</td>
<td>(1)</td>
<td>601,118</td>
<td>1,601,439</td>
<td>Olga Jonasson</td>
</tr>
</tbody>
</table>
### Designated Chair (2)

<table>
<thead>
<tr>
<th>Date Established</th>
<th>Description</th>
<th>College</th>
<th>Required for Full Funding</th>
<th>Book Value</th>
<th>Market Value</th>
<th>Holder of Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>1974</td>
<td>Yassenoff Designated Chair in Philosophy and Jewish Studies</td>
<td>Humanities</td>
<td>(2)</td>
<td>(2)</td>
<td>(2)</td>
<td>Tamar Rudavsky</td>
</tr>
</tbody>
</table>

1. **Historical Data on Funding Levels of Chairs**
   
   Until 3/2/72, a chair would be established if the fund generated enough income to pay the salary of the chair holder.

   From 3/3/72 to 5/4/78, gifts of $600,000 were needed to establish a chair.

   From 5/5/78 to 9/5/85, gifts of $750,000 were needed to establish a chair.

   From 9/6/85 to present, gifts of $1,250,000 were needed to establish a chair.

2. A "Designated Chair" may be established through annual support of $75,000 or more. The donor will ordinarily be expected to guarantee support for a minimum of three years.
## STATUS OF OHIO EMINENT SCHOLAR ENDOWMENTS
THE OHIO STATE UNIVERSITY ENDOWMENT FUND
As of June 30, 1989

<table>
<thead>
<tr>
<th>Date Established</th>
<th>Description</th>
<th>College</th>
<th>Amount Required for Full Funding</th>
<th>Book Value</th>
<th>Market Value</th>
<th>Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apr. 5, 1985</td>
<td>Art and Design Technology</td>
<td>Arts</td>
<td>$1,000,000</td>
<td>$1,006,658</td>
<td>$1,528,351</td>
<td>Noel Mayo</td>
</tr>
<tr>
<td>Apr. 5, 1985</td>
<td>Experimental Physical Chemistry</td>
<td>Math/Physical Science</td>
<td>1,000,000</td>
<td>1,001,782</td>
<td>1,624,901</td>
<td>Terry A. Miller</td>
</tr>
<tr>
<td>Mar. 6, 1987</td>
<td>Hydrogeology</td>
<td>Math/Physical Science</td>
<td>1,250,000</td>
<td>1,250,000</td>
<td>1,366,488</td>
<td>Frank W. Schwartz</td>
</tr>
<tr>
<td>Mar. 6, 1987</td>
<td>Industrial Microbiology</td>
<td>Biological Science</td>
<td>1,250,000</td>
<td>1,050,000</td>
<td>1,159,150</td>
<td>Fred R. Tabita</td>
</tr>
<tr>
<td>Mar. 6, 1987</td>
<td>Materials Research</td>
<td>Math/Physical Science</td>
<td>1,250,000</td>
<td>1,250,000</td>
<td>1,366,488</td>
<td>John W. Wilkins</td>
</tr>
<tr>
<td>Mar. 6, 1987</td>
<td>Mechanical Systems</td>
<td>Engineering</td>
<td>1,250,000</td>
<td>1,000,000</td>
<td>1,105,521</td>
<td>Vacant</td>
</tr>
<tr>
<td>Apr. 5, 1985</td>
<td>Molecular Genetics</td>
<td>Biological Science</td>
<td>1,000,000</td>
<td>1,037,000</td>
<td>1,562,673</td>
<td>Alan M. Lambowitz</td>
</tr>
<tr>
<td>Apr. 5, 1985</td>
<td>Scientific Computation</td>
<td>Math/Physical Science</td>
<td>1,000,000</td>
<td>1,218,349</td>
<td>1,776,761</td>
<td>Gregory R. Baker</td>
</tr>
<tr>
<td>Date</td>
<td>Established</td>
<td>Description</td>
<td>College</td>
<td>Amount Required for Full Funding</td>
<td>Book Value</td>
<td>Market Value</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>--------------------</td>
<td>----------------------------------</td>
<td>------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Feb. 1, 1974</td>
<td></td>
<td>Newton D. Baker-Baker &amp; Hostetler Prof. in Law</td>
<td>Law</td>
<td>$150,000</td>
<td>$750,000</td>
<td>$1,073,089</td>
</tr>
<tr>
<td>July 31, 1969</td>
<td></td>
<td>Bricker Prof. in Law</td>
<td>Law</td>
<td>(1)</td>
<td>367,660</td>
<td>753,360</td>
</tr>
<tr>
<td>July 11, 1975</td>
<td></td>
<td>Critchfield Prof. in Engineering</td>
<td>Engineering</td>
<td>150,000</td>
<td>100,000</td>
<td>245,846</td>
</tr>
<tr>
<td>Mar. 1, 1985</td>
<td></td>
<td>Merrell Dow Prof. in Pharmaceutical Admin.</td>
<td>Pharmacy</td>
<td>250,000</td>
<td>350,000</td>
<td>478,872</td>
</tr>
<tr>
<td>May 1, 1981</td>
<td></td>
<td>Enarson Prof. in Public Policy</td>
<td>Business</td>
<td>250,000</td>
<td>498,415</td>
<td>920,541</td>
</tr>
<tr>
<td>Feb. 3, 1978</td>
<td></td>
<td>Ernst &amp; Whitney Prof. in Accounting</td>
<td>Business</td>
<td>150,000</td>
<td>431,851</td>
<td>684,019</td>
</tr>
<tr>
<td>June 10, 1982</td>
<td></td>
<td>Fleshner Prof. in Educational Admin.</td>
<td>Education</td>
<td>250,000</td>
<td>295,659</td>
<td>507,997</td>
</tr>
<tr>
<td>May 1, 1981</td>
<td></td>
<td>Fontana Prof. in Metallurgical Eng.</td>
<td>Engineering</td>
<td>250,000</td>
<td>282,394</td>
<td>463,806</td>
</tr>
<tr>
<td>Dec. 9, 1982</td>
<td></td>
<td>Gerlach Prof. in College of Bus.</td>
<td>Business</td>
<td>250,000</td>
<td>675,733</td>
<td>1,070,012</td>
</tr>
<tr>
<td>Mar. 7, 1975</td>
<td></td>
<td>Hitchcock Prof. in Environmental Physiology</td>
<td>Medicine</td>
<td>150,000</td>
<td>238,337</td>
<td>490,231</td>
</tr>
<tr>
<td>Dec. 7, 1978</td>
<td></td>
<td>Kennedy Prof. in Human Nutrition</td>
<td>Human Ecology</td>
<td>250,000</td>
<td>251,130</td>
<td>587,570</td>
</tr>
<tr>
<td>June 14, 1948</td>
<td></td>
<td>Kimberly Prof. in Chemistry</td>
<td>Math./Phys. Sci.</td>
<td>(1)</td>
<td>132,500</td>
<td>324,635</td>
</tr>
<tr>
<td>Nov. 19, 1982</td>
<td></td>
<td>Kimberly Prof. in Pharmacy</td>
<td>Pharmacy</td>
<td>250,000</td>
<td>207,500</td>
<td>433,525</td>
</tr>
<tr>
<td>Oct. 14, 1965</td>
<td></td>
<td>Lazarus Prof. in Population Studies</td>
<td>Soc./Behav. Sci.</td>
<td>(1)</td>
<td>158,785</td>
<td>325,568</td>
</tr>
<tr>
<td>Feb. 4, 1977</td>
<td></td>
<td>Levy Prof. for Cancer</td>
<td>Medicine</td>
<td>150,000</td>
<td>233,529</td>
<td>495,179</td>
</tr>
<tr>
<td>Feb. 13, 1969</td>
<td></td>
<td>McDougal Prof. in Engineering</td>
<td>Engineering</td>
<td>(1)</td>
<td>146,000</td>
<td>331,135</td>
</tr>
<tr>
<td>June 9, 1979</td>
<td></td>
<td>Newman Prof. in Physical Science</td>
<td>Chemistry</td>
<td>250,000</td>
<td>280,313</td>
<td>464,541</td>
</tr>
<tr>
<td>Feb. 6, 1981</td>
<td></td>
<td>Nordholt Prof. in Mech. or Metal. Eng.</td>
<td>Engineering</td>
<td>250,000</td>
<td>261,275</td>
<td>476,481</td>
</tr>
<tr>
<td>Feb. 3, 1989</td>
<td></td>
<td>O'Donnell Prof. in Philosophy</td>
<td>Humanities</td>
<td>500,000</td>
<td>536,000</td>
<td>548,545</td>
</tr>
<tr>
<td>Sept. 7, 1979</td>
<td></td>
<td>O'Neil Prof. in Law and Judicial Admin.</td>
<td>Law</td>
<td>250,000</td>
<td>250,004</td>
<td>521,658</td>
</tr>
<tr>
<td>July 11, 1980</td>
<td></td>
<td>Professorship in Plant Protection</td>
<td>Agriculture</td>
<td>250,000</td>
<td>338,834</td>
<td>660,762</td>
</tr>
<tr>
<td>Apr. 10, 1969</td>
<td></td>
<td>Fumereze Prof. in the Prevention and Treatment of Infectious Diseases</td>
<td>Medicine</td>
<td>(1)</td>
<td>153,257</td>
<td>356,198</td>
</tr>
<tr>
<td>Apr. 2, 1976</td>
<td></td>
<td>Powelson Prof. of Medicine</td>
<td>Medicine</td>
<td>150,000</td>
<td>254,787</td>
<td>561,605</td>
</tr>
<tr>
<td>Apr. 4, 1975</td>
<td></td>
<td>Saslaw Prof. in Infectious Diseases</td>
<td>Medicine</td>
<td>150,000</td>
<td>163,330</td>
<td>353,608</td>
</tr>
<tr>
<td>Apr. 4, 1980</td>
<td></td>
<td>Shepard Endowed Prof. in Insurance</td>
<td>Business</td>
<td>250,000</td>
<td>302,042</td>
<td>594,772</td>
</tr>
<tr>
<td>Dec. 8, 1977</td>
<td></td>
<td>Shocknessy Prof. in Law</td>
<td>Law</td>
<td>150,000</td>
<td>130,000</td>
<td>295,127</td>
</tr>
<tr>
<td>Sept. 5, 1986</td>
<td></td>
<td>Stanley Prof. in Law</td>
<td>Law</td>
<td>500,000</td>
<td>500,700</td>
<td>572,336</td>
</tr>
<tr>
<td>Jan. 9, 1981</td>
<td></td>
<td>Topper Prof. in Law</td>
<td>Law</td>
<td>250,000</td>
<td>243,348</td>
<td>328,209</td>
</tr>
<tr>
<td>Date</td>
<td>Description</td>
<td>College</td>
<td>Amount Required for Full Book Value</td>
<td>Market Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------</td>
<td>------------------</td>
<td>-------------------------------------</td>
<td>--------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov. 1, 1985</td>
<td>VanBuren Prof. in Farm Mgt.</td>
<td>Agriculture</td>
<td>$250,000</td>
<td>$250,100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr. 15, 1985</td>
<td>Wiley Prof. in Phy. Med. and Rehab. Med.</td>
<td>Medicine</td>
<td>250,000</td>
<td>286,467</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb. 2, 1981</td>
<td>Wilson Prof. in Cardiology</td>
<td>Medicine</td>
<td>250,000</td>
<td>393,368</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb. 4, 1977</td>
<td>Wilson Prof. in Orthopedic Surg.</td>
<td>Medicine</td>
<td>150,000</td>
<td>151,775</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr. 10, 1969</td>
<td>Arthur Young Prof. in Accounting</td>
<td>Business</td>
<td>(1)</td>
<td>370,485</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sept. 8, 1972</td>
<td>Youngberg Trustees Distinguished Prof.</td>
<td>Academic Affairs</td>
<td>150,000</td>
<td>351,608</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 7, 1973</td>
<td>Youngberg Prof. of Vet. Medicine</td>
<td>Vet. Med.</td>
<td>150,000</td>
<td>286,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Designated Professorships (2)**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>College</th>
<th>Amount Required for Full Book Value</th>
<th>Market Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1, 1970</td>
<td>Duriron Co. Prof. of Metal. Eng.</td>
<td>Engineering</td>
<td>(2)</td>
<td>(2)</td>
</tr>
<tr>
<td>May 3, 1985</td>
<td>Mason Desg. Prof. in Trans. and Logistics</td>
<td>Business</td>
<td>(2)</td>
<td>(2)</td>
</tr>
<tr>
<td>June 12, 1980</td>
<td>Platt-Porter, Wright, Morris and Arthur</td>
<td>Law</td>
<td>(2)</td>
<td>(2)</td>
</tr>
<tr>
<td>Sept. 7, 1979</td>
<td>Presidents Club Prof. in Law</td>
<td>Law</td>
<td>(2)</td>
<td>(2)</td>
</tr>
<tr>
<td>Sept. 8, 1978</td>
<td>Want Desg. Prof. in Chinese Lit. and Culture</td>
<td>Humanities</td>
<td>(2)</td>
<td>(2)</td>
</tr>
</tbody>
</table>

**Historical Data on Funding Levels of Professorships**

Until 3/2/72, there had to be at least $5,000 generated to the income account annually to establish a professorship.

From 3/3/72 to 5/4/78, gifts of $150,000 were needed to establish a professorship.

From 5/5/78 to 9/5/85, gifts of $250,000 were needed to establish a professorship.

From 9/6/85 to the present, gifts of $500,000 were needed to establish a professorship.

(2) A "Designated Professorship" may be established through annual support of $30,000 or more for a specific term. The donor will ordinarily be expected to guarantee support for a minimum of three years.
## STATUS OF CHAIR FUNDS

### THE OHIO STATE UNIVERSITY FOUNDATION ENDOWMENT FUND

As of June 30, 1989

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>College</th>
<th>Amount Required for Full Funding</th>
<th>Book Value</th>
<th>Market Value</th>
<th>Holder of Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 3, 1986</td>
<td>Bank One Chair of Excellence</td>
<td>To be Determined</td>
<td>$1,000,000</td>
<td>$316,949</td>
<td>$356,500</td>
<td>Awaiting completion of funding</td>
</tr>
<tr>
<td>Nov. 24, 1986</td>
<td>Dorothy M. Davis Chair</td>
<td>Medicine</td>
<td>$1,250,000</td>
<td>$525,000</td>
<td>$594,744</td>
<td>Awaiting completion of funding</td>
</tr>
<tr>
<td>Dec. 17, 1985</td>
<td>John Deaver Drinko – Baker &amp; Hostetler Chair of the College of Law</td>
<td>Law</td>
<td>$1,250,000</td>
<td>$1,750,000</td>
<td>$2,053,443</td>
<td>Robert J. Lynn</td>
</tr>
<tr>
<td>Dec. 6, 1985</td>
<td>Berry Chair of New Technologies in Marketing</td>
<td>Business</td>
<td>$1,000,000</td>
<td>$1,000,000</td>
<td>$1,179,295</td>
<td>Vacant</td>
</tr>
</tbody>
</table>
Page 236 is blank
APPENDIX VIII

COLLEGE OF AGRICULTURE REPORT ON OARDC
August 23, 1989

Presented to the Agricultural Affairs Committee
(See page 160)
COLLEGE OF AGRICULTURE
REPORT on O.A.R.D.C.
August 23, 1989

Goals
Balance the annual operating budget by the end of FY 90
Eliminate the negative cash balance by the end of FY 93

Plan
20% reduction in operating funds; FY 90
20% reduction in personnel positions over 2-year period; FY 90 and FY 91
(Personnel reductions through attrition, transfer to other positions within the College of Agriculture, transfer to other positions within O.S.U., and possible abolishment of positions.)

Process
- OARDC Director requested department chairs and administrative units to submit plans for 10% and 20% reductions
- College of Agriculture administrative team submitted plan to achieve financial goals to Acting Provost Fred Hutchinson, Vice President Weldon Ihrig, and Controller Janet Achtermann
- College of Agriculture administrative team met with each department chair to work out details of each unit's deficit reduction plan
- College of Agriculture administrative team met with Vice President Madison Scott to review possible reductions in personnel, to seek advice and counsel regarding personnel policies and procedures, and to plan procedures for the personnel reduction phase of the plan, if required
- Progress report discussed with Acting Provost Hutchinson, Vice President Ihrig, and Controller Achterman
- Meetings with faculty, staff and graduate students will be held on the Columbus and Wooster campuses (September 14-15) to share information about the deficit reduction plan

Personnel Reduction

<table>
<thead>
<tr>
<th></th>
<th>Faculty</th>
<th>A&amp;P</th>
<th>CSS</th>
<th>Specials</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTE 7/31/88</td>
<td>153</td>
<td>197</td>
<td>283</td>
<td>80</td>
<td>713</td>
</tr>
<tr>
<td>Base FTE 3/31/89</td>
<td>149</td>
<td>186</td>
<td>263</td>
<td>76</td>
<td>673</td>
</tr>
<tr>
<td>Target FTE 6/31/91</td>
<td>129</td>
<td>152</td>
<td>225</td>
<td>55</td>
<td>561</td>
</tr>
<tr>
<td>(% Reduction)</td>
<td>(-13%)</td>
<td>(-18%)</td>
<td>(-14%)</td>
<td>(-28%)</td>
<td>(-17%)</td>
</tr>
<tr>
<td>Current Plan Reductions</td>
<td>15</td>
<td>40</td>
<td>23</td>
<td>35</td>
<td>113</td>
</tr>
</tbody>
</table>
APPENDIX IX

THE OHIO STATE UNIVERSITY PLANT INDEBTEDNESS
June 30, 1989

Presented to the Fiscal Affairs Committee
(See page 161)
**The Ohio State University**

**Plant Indebtedness**

*as of June 30, 1989*

### BONDS PAYABLE

<table>
<thead>
<tr>
<th>General Receipts Bonds:</th>
<th>Due Date</th>
<th>Rate</th>
<th>Outstanding Debt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 1985 A</td>
<td>1986-2001</td>
<td>7.740%</td>
<td>$22,945,000</td>
</tr>
<tr>
<td>Series 1985 B</td>
<td>1986-2001</td>
<td>Variable (5.212%)</td>
<td>33,400,000</td>
</tr>
<tr>
<td>Series 1986 A</td>
<td>1987-2001</td>
<td>7.210%</td>
<td>41,185,000</td>
</tr>
<tr>
<td>Series 1986 B</td>
<td>1987-2006</td>
<td>Variable (5.232%)</td>
<td>45,000,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$142,530,000</strong></td>
</tr>
</tbody>
</table>

#### Dormitory Revenue Bonds:

| Series A | 1980-1997 | 4.180% | $2,097,000 |
| Series C | 1981-1999 | 3.920% | 600,000     |
| Series E | 1983-2000 | 3.840% | 2,137,000   |
| Series H | 1983-1990 | 3.468% | 100,000     |
| Series I | 1971-2006 | 4.490% | 5,640,000   |
| **Total** |          |        | **$10,574,000** |

**OUTSTANDING BONDS**

<table>
<thead>
<tr>
<th>General Receipts Bonds:</th>
<th>Due Date</th>
<th>Rate</th>
<th>Outstanding Debt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 1985 A</td>
<td>1986-2001</td>
<td>7.740%</td>
<td>$22,945,000</td>
</tr>
<tr>
<td>Series 1985 B</td>
<td>1986-2001</td>
<td>Variable (5.212%)</td>
<td>33,400,000</td>
</tr>
<tr>
<td>Series 1986 A</td>
<td>1987-2001</td>
<td>7.210%</td>
<td>41,185,000</td>
</tr>
<tr>
<td>Series 1986 B</td>
<td>1987-2006</td>
<td>Variable (5.232%)</td>
<td>45,000,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$142,530,000</strong></td>
</tr>
</tbody>
</table>

### NOTES PAYABLE

#### Certificates of Participation:

| Child Care Center | 1987-2004 | 7.795% | $3,275,000 |
| Stores & Receiving Bldg. | 1987-2005 | 7.800% | 3,550,000 |
| **Total** |          |        | **$6,825,000** |

#### Other Notes & Leases:

| GE (Radiology Eq.) | 1986-1993 | 9.900% | $909,030 |
| Chicorp (Computer Eq.) | 1988-1993 | 10.540% | 37,310 |
| Xerox (Duplicating Eq.) | 1984-1992 | 8.000% | 850,225 |
| HNB (Telephone Eq.) | 1984-1990 | 8.000% | 18,630 |
| Ameritech (Phone Eq.) | 1985-1997 | 8.1-9.75% | 1,383,131 |
| HNB (Airport "T" Hangars) | 1988-2011 | 11.330% | 533,206 |
| HNB (Airport "C" Hangars) | 1986-2011 | 11.330% | 1,188,857 |
| Leasemark (Computer Eq.) | 1996-1992 | 7.9-10.0% | 164,522 |
| Pitney Bowes (Computer Eq.) | 1985-1990 | 8.90% | 7,189 |
| Marquette (Phone System) | 1987-1993 | 11.06% | 51,584 |
| IBM (Duplicating Eq.) | 1988-1993 | 10.00% | 16,955 |
| Bankers Lang. (Computer Eq.) | 1985-1992 | 10.54-12% | 19,804 |
| Chase Lang. (Super Computer) | 1987-1991 | 7.66% | 3,538,259 |
| **Total** |          |        | **$8,961,503** |

**TOTAL NOTES PAYABLE**

| **$15,786,503** |

**TOTAL PLANT INDEBTEDNESS**

| **$168,890,503** |

* Indicates more than one lease
APPENDIX X

OHIO STADIUM TURF REPLACEMENT
NORTH ATHLETIC COMPLEX PLAYING FIELDS

Adopted by the Board of Trustees August 23, 1989
(See page 208)
OHIO STADIUM
TURF REPLACEMENT

OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1969
NORTH ATHLETIC COMPLEX
PLAYING FIELDS

OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1969

243
APPENDIX XI

SITE RENOVATION AND BRIDGE AND STREET IMPROVEMENTS, PHASE I
CAMPBELL HALL LABORATORY REMODELING

Adopted by the Board of Trustees August 23, 1989
(See page 209)
### Tabulation of Bids

Bids received by The Ohio State University on June 26, 1989. Bids opened by Tamara Bell and tabulated by Don Barr. Awards indicated with an "**".

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Estimate</th>
<th>Douglas &amp; Meyers</th>
<th>B.S. Contractors</th>
<th>Coady Contracting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Contract</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid Only</td>
<td>$765,800.00</td>
<td>$648,700.00</td>
<td>$719,888.00</td>
<td>$887,442.88</td>
</tr>
<tr>
<td>(No alternates)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$765,800.00</td>
<td>$648,700.00</td>
<td>$719,888.00</td>
<td>$887,442.88</td>
</tr>
<tr>
<td><strong>Electric Contract</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid Only</td>
<td>$95,000.00</td>
<td>$84,234.00</td>
<td>$84,497.00</td>
<td>$89,950.00</td>
</tr>
<tr>
<td>(No alternates)</td>
<td></td>
<td></td>
<td></td>
<td>$91,700.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$95,000.00</td>
<td>$84,234.00</td>
<td>$84,497.00</td>
<td>$89,950.00</td>
</tr>
</tbody>
</table>
SITE RENOVATIONS
BRIDGE AND STREET IMPROVEMENTS
PHASE I

OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1969
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

CAMPBELL HALL LABORATORY REMODELING

Tabulation of Bids

Bids received by the Division of Public Works on July 19, 1989. Bids opened by Gari Hendrickson and tabulated by Liz Foster. Awards indicated with an "A".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>B. S. Contractors #</th>
<th>Ed Ross</th>
<th>Functional Dev.</th>
<th>Gutknecht</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$299,125.00</td>
<td>$258,877.00</td>
<td>$281,900.00</td>
<td>$297,490.00</td>
<td>$302,278.00</td>
</tr>
<tr>
<td>Alt. G-1 (Kitchen Equip.)</td>
<td>39,712.00</td>
<td>34,746.00</td>
<td>38,100.00</td>
<td>38,220.00</td>
<td>36,900.00</td>
</tr>
<tr>
<td>Alt. G-3 (H.E. Educ.)</td>
<td>28,657.00</td>
<td>14,507.00</td>
<td>21,200.00</td>
<td>17,750.00</td>
<td>27,600.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$367,494.00</td>
<td>$308,130.00</td>
<td>$341,200.00</td>
<td>$353,460.00</td>
<td>$366,778.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternates not taken:

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>B. S. Contractors #</th>
<th>Ed Ross</th>
<th>Functional Dev.</th>
<th>Gutknecht</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. G-2 (H.E. Admin)</td>
<td>$7,046.00</td>
<td>$12,438.00</td>
<td>$12,000.00</td>
<td>$10,990.00</td>
<td>$10,800.00</td>
</tr>
<tr>
<td>Alt. G-4 (Gypsum Bulkhead)</td>
<td>3,149.00</td>
<td>8,070.00</td>
<td>8,200.00</td>
<td>4,450.00</td>
<td>4,200.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hurley</th>
<th>Good Home Maint.</th>
<th>Williamson</th>
<th>Waller &amp; Lund Ohio State Constr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$302,850.00</td>
<td>$316,848.00</td>
<td>$329,000.00</td>
</tr>
<tr>
<td>Alt. G-1 (Kitchen Equip.)</td>
<td>39,250.00</td>
<td>39,341.00</td>
<td>37,178.00</td>
</tr>
<tr>
<td>Alt. G-3 (H.E. Educ.)</td>
<td>29,850.00</td>
<td>26,532.00</td>
<td>24,452.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$371,950.00</td>
<td>$382,721.00</td>
<td>$390,630.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternates not taken:

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>B. S. Contractors #</th>
<th>Ed Ross</th>
<th>Functional Dev.</th>
<th>Gutknecht</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. G-2 (H.E. Admin)</td>
<td>$11,850.00</td>
<td>$11,934.00</td>
<td>$10,255.00</td>
<td>$16,000.00</td>
<td>$11,400.00</td>
</tr>
<tr>
<td>Alt. G-4 (Gypsum Bulkhead)</td>
<td>$0.00</td>
<td>4,782.00</td>
<td>6,527.00</td>
<td>9,000.00</td>
<td>4,250.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>Stevens Points</th>
<th>Farber</th>
<th>Diesveld &amp; Pope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$176,670.00</td>
<td>$159,000.00</td>
<td>$175,000.00</td>
<td>$198,000.00</td>
</tr>
<tr>
<td>Alt. P-1 (Kitchen Equip.)</td>
<td>2,300.00</td>
<td>6,500.00</td>
<td>5,000.00</td>
<td>2,891.00</td>
</tr>
<tr>
<td>Alt. P-3 (H.E. Educ.)</td>
<td>6,750.00</td>
<td>1,050.00</td>
<td>500.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$185,720.00</td>
<td>$166,550.00</td>
<td>$180,500.00</td>
<td>$201,706.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternates not taken:

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>Stevens Points</th>
<th>Farber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. P-2 (H.E. Admin)</td>
<td>$2,000.00</td>
<td>$900.00</td>
<td>$1,500.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$808.00</td>
</tr>
<tr>
<td>HVAC Contract</td>
<td>Estimate</td>
<td>Farber &amp;</td>
<td>J. A. Guy</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$155,590.00</td>
<td>$179,700.00</td>
<td>$187,300.00</td>
</tr>
<tr>
<td>Alt. B-3 (H.E. Educ.)</td>
<td>10,800.00</td>
<td>5,500.00</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$166,390.00</td>
<td>$185,200.00</td>
<td>$192,300.00</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alt. B-2 (H.E. Admin)</td>
<td>$9,550.00</td>
<td>$4,400.00</td>
<td>$5,300.00</td>
</tr>
<tr>
<td>Alt. B-5 (Stainless Hood)</td>
<td>3,000.00</td>
<td>4,000.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td>Alt. B-6 (Cooling Tower)</td>
<td>20,000.00</td>
<td>18,500.00</td>
<td>21,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Buckeye &amp;</th>
<th>Demos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$140,970.00</td>
<td>$119,630.00</td>
<td>$208,556.00</td>
</tr>
<tr>
<td>Alt. E-1 (Kitchen Equip)</td>
<td>1,500.00</td>
<td>2,095.00</td>
<td>790.00</td>
</tr>
<tr>
<td>Alt. E-3 (H.E. Educ.)</td>
<td>10,735.00</td>
<td>6,584.00</td>
<td>19,580.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$153,205.00</td>
<td>$128,309.00</td>
<td>$228,926.00</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alt. E-2 (H.E. Admin)</td>
<td>3,445.00</td>
<td>4,269.00</td>
<td>5,540.00</td>
</tr>
<tr>
<td>Alt. E-6 (Cooling Tower)</td>
<td>1,250.00</td>
<td>300.00</td>
<td>1,380.00</td>
</tr>
</tbody>
</table>
APPENDIX XII

COLLEGE ROAD STORM SEWER EXTENSION

Adopted by the Board of Trustees August 23, 1989
(See page 211)
Bids received by The Ohio State University on August 15, 1949. Bids opened by Tamara Bell and tabulated by Ray Yancik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Concrete Constr.</th>
<th>Righter</th>
<th>Complete General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$350,000.00</td>
<td>$149,000.00</td>
<td>$212,386.00</td>
<td>$225,000.00</td>
</tr>
<tr>
<td>Alt. G-1 (Water Line)</td>
<td>.00</td>
<td>67,000.00</td>
<td>25,000.00</td>
<td>85,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$350,000.00</td>
<td>$216,000.00</td>
<td>$237,386.00</td>
<td>$310,000.00</td>
</tr>
</tbody>
</table>
COLLEGE ROAD STORM SEWER EXTENSION

OFFICE OF BUSINESS AND ADMINISTRATION
AUGUST 23, 1989
Page 256 is blank
APPENDIX XIII

EASEMENT
OHIO POWER COMPANY

Adopted by the Board of Trustees August 23, 1989
(See page 213)
Ohio Power Company Easement at the Newark Regional Campus, The Ohio State University
Lease of the Beechwold Medical Center
at 4808 North High Street

North High Street

East Jeffrey Place

East Royal Forest Boulevard

Beechwold Medical Center
4808 North High Street

East Beechwold Boulevard

Office of Business and Administration
APPENDIX XV

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

August 31, 1989
Jay R. Smith

Jay R. Smith is publisher of The Atlanta Journal and The Atlanta Constitution. Prior to his appointment in Atlanta, he was publisher of the Austin-American Statesman.

He began his career in journalism at 17, when he was hired as a reporter at The Cincinnati Post. While a student at Ohio State, he worked on the national copy desk of The Wall Street Journal as a summer job.

Other newspaper positions Smith has held include president of the Dayton Daily News and Journal Herald; reporter, assistant city editor and assistant managing editor for the Dayton Daily News; and business manager of Dayton Newspapers, Inc., which published the two papers.

Smith is a native of Cincinnati and a 1971 graduate of Ohio State's School of Journalism. He earned a master's degree in public administration from the University of Dayton in 1975 and is a member of the Ohio State Alumni Advisory Board.

In 1986, Texas Business Magazine named Smith one of ten "rising stars" under the age of 40 in the state. His civic and professional affiliations include the board of directors of the Atlanta Chamber of Commerce; the Metro-Atlanta advisory board of directors of the Salvation Army; and chairman of the minority affairs committee of the American Newspaper Publishers Association.

Smith is serving as chairman of Camp Best Friends, a summer day-camp program for 13,000 Atlanta children; chairs the Atlanta United Way's strategic marketing committee; and serves on the boards of Central Atlanta Progress, Inc. and the Commerce Club in Atlanta. Smith chairs the United Negro College Fund drive in Atlanta this year and he served as the major gifts campaign chairman for Zoo Atlanta.

In 1987, the University awarded him the President's 300th Commencement Award, which was given to outstanding alumni for representing excellence in the enduring mission of Ohio State. We welcome him as speaker for today's commencement ceremony.
Recipients of Honors

Gertrude B. Elion
Doctor of Science

Gertrude Elion, a leader in biochemical research, was one of the three 1988 recipients of the Nobel Prize in Physiology or Medicine. She won the award for her dedication to and accomplishment in the development of therapeutic drugs.

Her work in the 1950s led to an important breakthrough in the treatment of leukemia, and she has made invaluable contributions to the development of drugs to treat a variety of diseases, including gout, malaria, herpes infections, rheumatoid arthritis, cancer, and more recently, AIDS. She is a scientist emeritus at Wellcome Research Laboratories (WRL) in Research Triangle Park, North Carolina.

In 1937, Elion graduated Phi Beta Kappa and summa cum laude from Hunter College in New York and earned a master's degree from New York University in 1941. Despite her emeritus status, she remains active in research, teaching, advising, and in professional organizations.

Among her many honors and awards are honorary degrees from the University of Michigan, Brown University, and George Washington University. Her lengthy list of professional activities includes several terms as associate editor of the prestigious journal, Cancer Research; membership on the National Cancer Advisory Board; and a position on the board of directors of the American Association for Cancer Research. In those roles she has been a vocal proponent of basic research and has fought for the preservation of basic research support in the face of dwindling resources. She is also greatly concerned with the quality of science education in the United States. Her contribution to science has been profound, and Ohio State is deeply honored to present her with an honorary degree.
Recipients of Honors

Dale T. Friday
Distinguished Service Award

Dale T. Friday was the first general manager of Ohio State's Farm Science Review, a position he held from 1963 until his retirement in 1981. Under his guidance, the event became nationally recognized as the premier showcase of the best in agricultural automation, farming practices, crop varieties, and livestock breeds.

Friday, who also served as professor of agronomy, pioneered research on forestry fertilization by airplane and originated the first aerial application of dry fertilizer during his tenure as county extension agent in Putnam County, Ohio. Friday also supervised the application of the first carloads of liquid nitrogen fertilizer ever used in the United States. He conducted some of the earliest research and demonstration work on no-till crop production in Ohio and supervised use of the first no-till corn planter utilized in Ohio.

Friday was among the founders and organizers of the North American Farm Show Council and has served as president, vice president, and treasurer of that organization. He is currently executive coordinator and in that role effected a 50 percent growth in membership of the council.

During the last decade, he has held leadership positions with the Ohio Vegetable and Potato Growers' Association, the Ohio Agro-Expo Agribusiness Trade Show, and the Ohio Association of Vocational Agriculture.

As an active community leader, he is involved in numerous organizations in the Columbus area and has participated in People-to-People Goodwill missions to China, Hong Kong, Korea, and Japan, as well as to Australia and New Zealand. Friday received both his bachelor's and master's degrees in agricultural education from Ohio State. His service to Ohio State and to the field of agriculture has been invaluable, and it is with great pleasure we award him this Distinguished Service Award.

Thomas B. Smith
Distinguished Service Award

As a former associate vice president for physical facilities, Thomas B. Smith was responsible for construction, renovation, maintenance, utilities, and landscaping services for the hundreds of buildings and thousands of acres that compose the Ohio State campuses. He retired in 1986 as an associate vice president emeritus after 39 years at the University. During his tenure, he directed the unprecedented growth in the University's physical plant that made it a model for institutional facilities management.

Smith came to Ohio State in 1946 to teach engineering drawing while studying for his degree in electrical engineering. He graduated in 1949 and began work as an engineer in the University Architects Office, where he served until he was named assistant director of the physical plant in 1956.

He was responsible for construction planning during a period of explosive growth at Ohio State. As assistant and then associate director of the physical plant between 1956 and 1970, he oversaw more than 300 major construction projects such as the entire North Campus residential and dining facilities, Baker Systems Engineering Building, and St. John Arena. During his tenure in the Department of Physical Facilities, nearly 78 percent of the University's buildings were constructed.

Smith used aggressive and innovative strategies to combat the energy crisis in the 1970s. While he served as associate vice president, his energy management measures saved more than $100 million, and they will continue to provide savings to the University for years to come. Consequently, other universities have looked upon Ohio State as a leader in energy management.

A member of the Association of Physical Plant Administrators since 1963, he served as the 1981-82 president and received its Meritorious Service Award—the association's highest recognition. We, too, recognize him for his outstanding achievement and are proud to present him with this Distinguished Service Award.
The Graduate School
Dean: Roy A. Koenigsknecht

Doctor of Musical Arts
Richard Clarence Lopez, Columbus; B.Mus., M.Mus.; Music
Dr. Burdette Green

Doctor of Philosophy
Farzan Abdolsalami, Mashhad, Iran; B.S. (University of Oklahoma); M.S.; Electrical Engineering
Dr. James G. Gatling
Ioan Adonyi-Bucuroi, Gyuat Nesher, Israel; B.S. (Polytechnical Institute); M.S.; Welding Engineering
Dr. W. A. Baeslack III
Akintunde Akintayo Akloye, Nigeria; B.A. (The University of Ife); M.A. (Fairfield University); Communication
Dr. R. Monaghan
Ahmad Maatooq Al-Shabaan, Saudi Arabia; B.S. (Riyadh University); M.S. (University of California at Davis); Agromony
Dr. Frank Himes
Abdollah I. M. Alajaji, Durma, Saudi Arabia; B.A. (King Saud University); M.A.; Education
Dr. Else J. Alberty
Bevery Joyce Allen, North Carolina; B.S. (North Carolina Agricultural and Technical State University); M.F.A. (University of North Carolina at Greensboro); Health, Physical Education and Recreation
Dr. Seymour Kleinman
Cynthia Ann Allen, Jackson; B.S.; M.A. (University of Dayton); Psychology
Dr. Gifford Weary
Paul Joseph Andaloro, Canton; B.A. (Mount Union College); Mathematics
Dr. Joseph Ferrar
Emeka Bernard Anyadoh, Ima, Nigeria; B.S. (Northeast Missouri State University); M.S. (Virginia State University); Agricultural Education
Dr. R. Kirby Barrick
Robert David Aron, Columbus; B.A. (University of Iowa); M.B.A. (Illinois Institute of Technology); M.Ed.; Education
Dr. Ronald L. Jacobs
Kojo Assan, Salponted, Ghana; B.S. (University of Ghana); M.S.; Agricultural Economics and Rural Sociology
Dr. Dale Adams
Bela Bajnok, Columbus; M.Ed. (Eotvos University); M.S.; Mathematics
Dr. Etechi Bannai
Maree J. Garowich Belchambers, Mundelein, IL; Diploma (New South Wales College of Occupational Therapy); M.S.; Education
Dr. Gregory L. Trebatosnuki
Ajay Bhardwaj, India; B.S. (Haryana Agricultural University); M.S. (Udaipur University); Agricultural Education
Dr. Larry E. Miller
Rajiv Bhatnagar, Kanpur, India; B.Tech., M.Tech. (Indian Institute of Technology); M.S.; Nuclear Engineering
Dr. Don W. Miller
Carolyn Birmingham, Cleveland, B.A. (University of Rochester); M.A.; Health, Physical Education and Recreation
Dr. Seymour Kleinman
Win Bo, Rangoon, Burma; B.E. (Rangoon Institute of Technology); M.S.; Computer and Information Science
Dr. Bruce Weede
Karen Maki Bolinger, Willowick; B.S.Ed.; Mathematics
Dr. M. Gregory Forest
Robert John Bowling, Florence, KY; B.S. (Northern Kentucky University); M.S.; Chemistry
Dr. Richard L. McCrery
Greg Brock, Columbus; B.A. (University of Michigan); M.A.; Economics
Dr. W. Eason
Frank Barringer Brooks, Williamsburg, VA; B.A. (Christopher Newport College); M.A. (Ohio University); Education
Dr. Gilbert A. Jarvis
Dawna L. Buchanan-Berrigan, Columbus, B.A. (Brock University); M.A.; Education
Dr. Janet Hickman, Dr. Rudine Sims Bishop
John Arnold Bunge, Gambier; B.A. (Macalester College); M.A. (Miami University); M.S.; Statistics
Dr. H. N. Nagaraja
Robert William Butler, Columbus; B.A. (Northwestern University); M.A.; History
Dr. Martha Garland
Marillyn L. Cantwell, Columbus; B.S. (University of Wisconsin at Stevens Point); M.A. (University of New Mexico); Home Economics
Dr. Anne Covey
Glynis Elaine Carr, Columbus; A.B. (University of California at Berkeley); M.A.; English
Dr. Amy Shuman
Martha Carrillo, San Juan, PR; B.S., M.S. (University of Puerto Rico); Microbiology
Dr. Omar O. Barriga
Paul C. Castagnon, West Hartford, CT; B.F.A. (University of Connecticut); M.F.A. (Stanford University); Theatre
Dr. Alfred S. Goldberg
Anthony Nino Celso, Columbus; B.A.; M.A.; Political Science
Dr. Lawrence Herson
Chin-Fen Chang, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); M.A. (The University of Iowa); Sociology
Dr. Toby Parcel
Yueh-Jane Chang, Keeling, Taiwan, R.O.C.; B.S. (Chung-Yuan Christian University); Statistics
Dr. William Noto
Hua Chen, Beijing, P.R.C.; B.S. (Wuhan University); Mathematics
Dr. Dan Burghelea
Jian-Shiang Chen, Taipei, Taiwan, R.O.C.; B.S., M.S. (National Tsing-Hua University); Mechanical Engineering
Dr. C. H. Meng
Xiao-Dong Chen, Beijing, P.R.C.; B.S. (Fudan University); M.S.; Physics
Dr. James Gaines, Dr. Daniel Cox
Yuh-Ing Chen, Taipei, Taiwan, R.O.C.; B.B.A. (Fu Jen University); M.S. (National Central University); Statistics
Dr. Douglas A. Wolfe
Do Soon Cho, Seoul, South Korea; B.S., M.S. (Seoul National University); Botany
Dr. Ralph Boerner
Jae Hoon Choi, South Korea; B.S. (HanYang University); M.S.; Electrical Engineering
Dr. Roger Rudduck
Yongseog Chung, Seoul, South Korea; B.S., M.S. (Korea University); Chemistry
Dr. Anthony W. Czarnik
Younook Peter Chung, Seoul, North Korea; B.S. (Sogang University); M.B.A. (California State University); Business Administration
Dr. Rene M. Stutz
Hui-Huang A. Chyou, Taiwan, R.O.C.; B.S. (National Cheng Kung University); M.S.; Civil Engineering
Dr. Bruce E. Barsten
Thomas Willeton Clayton, Jr., Columbus; B.A. (Iowa Wesleyan College); Chemistry
Dr. Bruce E. Barsten
Richard Michael Cochran, Columbus; B.A. (University of Maryland); M.Ed. (Boston University); M.S. (Wayne State University); Education
Dr. Judith L. Green
Tim J. Coffy, Columbus; B.S. (University of Pittsburgh); Chemistry
Dr. Sheldon G. Shore
Adrienne Joan Colella, Lorida; B.A. (Miami University); M.A.; Psychology
Dr. John P. Wannus
Philip Bennet Corn, Columbus; B.S. (University of Chicago); M.S.; Physics
Dr. Richard N. Boyd
Seodon Kim, Busan, South Korea; B.S. (Seoul National University); Chemistry
Dr. Daryle H. Busch
Tong Suk Kim, South Korea; B.A. (Sung Kyun Kwan University); M.B.A. (Santa Clara University); Business Administration
Dr. Rene M. Stulz
Youngman Kim, South Korea; B.A. (Korea University); M.A.; Business Administration
Dr. A. Peter Costanza
Dr. Howard Marvel
Dr. Seung-Cheol Rong· Jiing-Yih Lai, Taiwan, B.A. (Korea University); M.S.; History
Dr. Allan R. Millet
Wing Man Kwok, Hong Kong; B.S. (The Chinese University of Hong Kong); Mathematics
Dr. Elich Bannai
Sunju Kwon, Jeonju, South Korea; B.A., M.A. (Seoul National University); M.A.; Economics
Dr. Donald R. Haurain
Jiing-Yih Lai, Taiwan, R.O.C.; B.S. (National Chiang Kung University); M.S.; Mechanical Engineering
Dr. Rajendra Singh
Bradley N. Lander, Warren; B.A. (Purdue University); M.A.; Psychology
Dr. Theodore J. Kaul
Marcia Ann La Reau, Gettysburg, PA; B.M.E. (Iowa State University); M.M. (Northwestern University); Music
Dr. A. Peter Costanza
Jong-Sook Lee, South Korea; B.S. (Seoul National University); M.S.; Home Economics
Dr. Jean T. Snook
Rong-Tsong Lee, Kaohsiung, Taiwan, R.O.C.; B.S.E. (National Cheng-Kung University); M.S.E. (National Taiwan University); Mechanical Engineering
Dr. Bernard J. Hamrock
Seung-Cheol Lee, Seoul, South Korea; B.A. (Korea University); M.A.; Economics
Dr. Howard Maskell
Anne Lesser, Upper Sandusky; B.A. (Ohio Northern University); M.A.; Education
Dr. David L. Boggs
Gialih Hoffman Lin, Kaohsiung, Taiwan; R.O.C.; B.S. (National Taiwan University); Chemistry
Dr. Ming-Daw Tsai
Neng-Pai Lin, Taiwan, R.O.C.; B.E. (National Taiwan University); M.A.; Business Administration
Dr. Leroy Krajewski
Susan Lowery, Warren; B.Mus. (Ashland College); M.A.; Education
Dr. Donald Tosi
Elizabeth Jo MacDaniel, Connerville, IN; B.A.; M.A. (Rice University); English
Dr. Patrick B. Mulllen
Christina Marie Makara, Bowling Green; B.A., B.M.A. (The University of Michigan); Education
Dr. Gilbert A. Jarvis
Jeffrey Alan Mckinney, Trenton; B.A. (Hanover College); Chemistry
Dr. David Hart
Kim Kenneth Metcalf, Columbus; B.S. (Ball State University); M.A.; Education
Dr. Donald Cruckshank
Daniel Carlton Miller, Cincinnati; B.A. (University of Cincinnati); M.A. (Miami University); Education
Dr. Jack Nagler, Dr. Martin L. Langis
Gerald Michael Mills, Dublin, Ireland; B.A., M.A. (University College of Dublin); Geography
Dr. A. John Arnyfield
Golam Mohammad, Comilla, Bangladesh; B.A., M.A. (University of Dacca); M.S. (University of Kentucky); Agricultural Economics and Rural Sociology
Dr. Leroy Husak
Vanessa Lynn Moore, Washington, DC; B.A. (University of Dayton); M.A.; Psychology
Dr. Andrew Schwabel
Barbara Ann Murphy, Hubbard; B.M. (Youngstown State University); M.A.; Music
Dr. Burdette Green
Eric James Murphy, Columbus; B.A. (Hastings College); OSU Biochemistry Program
Dr. Lloyd A. Horrocks
Bishnu Naraine, Georgetown, Guyana; B.A. (University of Guyana); M.A.; Education
Dr. Alan R. Osborne
Ngoc-Diep Thi Nguyen, Columbus; B.S. (West Virginia University); M.A.; Education
Dr. Elizabeth B. Bernardly
James Michael Nolan, Cleveland, B.A.; M.A.; Psychology
Dr. Harold Pepinsky
Kevin Novo-Gradac, Kansas City, KS; B.S., M.S. (New Mexico Institute of Mining and Technology); Chemistry
Dr. Bruce E. Bursten
Bogdan Stanislaw Oporowski, Poland; M.S. (Adam Mickiewicz University); Mathematics
Dr. Neil Robertson
Peter Allen Padolik, Chagrin Falls; B.A. (The College of Wooster); Chemistry
Dr. Daryle H. Busch
Jung Chuan Pan, Taiwan, R.O.C.; B.S. (Tunghai University); M.S. (University of Cincinnati); Food Science and Nutrition
Dr. Santi Bhowmik
Bogdan Stanislaw Oporowski, Poland; M.S. (Adam Mickiewicz University); Mathematics
Dr. Neil Robertson
Peter Allen Padolik, Chagrin Falls; B.A. (The College of Wooster); Chemistry
Dr. Daryle H. Busch
Jung Chuan Pan, Taiwan, R.O.C.; B.S. (Tunghai University); M.S. (University of Cincinnati); Food Science and Nutrition
Dr. Santi Bhowmik
Henry Panion III, Birmingham, AL; B.S. (Alabama A & M University); M.A.; Music
Dr. David Buller
Pamela Gail Patsch, Greensboro, NC; B.A. (North Carolina State University); M.A.; Education
Dr. Judy Genshaft
Frances Carolyn Pearson, Columbus; B.S., M.S. (Oregon State University); Education
Dr. Robert F. Rodgers
Robert A. Pelly, Smithagrove, KY; B.S., M.S. (Western Kentucky University); Agricultural Economics and Rural Sociology
Dr. Warren Lee
Nanfu Peng, Hsin-Chu, Taiwan, R.O.C.; B.S. (Chiao-Tung University); Statistics
Dr. Robert Bartosynski
Melanie Jane Miller Pepper, Hilliard, B.S. (University of Kentucky); Chemistry
Dr. Isahac Shartit
Goran Peric, Slav Pozega, Yugoslavia; B.S. (University of Zagreb); Mathematics
Dr. Henri Moscovici
Lisa Sheree Pion-Berlin, Washington, DC; B.S. (Georgetown University); M.S.W., M.P.A. (University of Denver); Social Work
Dr. Beverly Toomey
Michael Politino, Plain City; B.S., M.A.; Psychology
Dr. Henry Leland
Sheila Porter, Columbus; B.F.A. (Ohio Wesleyan University); M.S.W.; Psychology
Dr. Henry Leland
Valerie Jean Powers, Columbus; B.S.Cer.E.; M.S.; Ceramic Engineering
Dr. Eric Kreidler
Kenneth Richard Pugh, Elmott, NY; B.S. (New York Institute of Technology); M.A.; Psychology
Dr. Neal Johnson
Donna Smith Quick, Lexington, KY; B.S. (University of Kentucky); M.S. (University of Alabama); Home Economics
Dr. Barbara Neuman
Nurur Rahman, Noakhali, Bangladesh; B.Com. M.Com. (Dhaka University); M.B.A. (Indiana University); M.A.; Business Administration
Dr. John Grabner
Jeffrey Lewis Smalldon, Columbus; B.A. (Velparzus University); M.A. (Purdue University); M.H.A. (The George Washington University); Psychology
Dr. Richard K. Russell

Charles George Smith, Cleveland, B.A. (John Carroll University); M.S. (University of Cincinnati); Labor and Human Resources
Dr. Marcus H. Sandver

John Reed Smith, Knoxville, TN; B.S.Bus.Adm., M.Acc. (University of Tennessee); Accounting and Management Information Systems
Dr. Thomas Burns

Laura Kay Smith, Fort Dodge, IA; B.A. (University of Northern Iowa); M.A.; Psychology
Dr. Steven J. Beck

Yeqing Song, Wuhan, P.R.C.; B.S. (Wuhan University); M.S.; Biochemistry
Dr. Gary Means

Mehmet F. Sützen, Turkey; B.S. (Middle East Technical University); M.S. (University of Petroleum and Minerals); Mechanical Engineering
Dr. Kemal Vajif

Judith Ann Stafford, Auburn, IN; B.S. (Indiana State University); M.S.W. (Indiana University); Social Work
Dr. Beverly Toomey

Charles Lee Stinemetz, Maryville; B.A. (Ohio Wesleyan University); M.S.; Botany
Dr. Michael Evans

John Wallace Taylor, Mt. Vernon; B.M.Ed. (Bowling Green State University); M.Mus. (Indiana University); Music
Dr. Jere Forsythe

Karen Michelle Terry, Sumter, SC; B.S. (Tennessee State University); M.A.; Psychology
Dr. Steven J. Beck

Hwa-Chong Tien, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (University of Missouri at Rolla); Mechanical Engineering
Dr. Kamhe Fuijai

Sharon Elaine Titus, Batavia; B.S. (Eastern Kentucky University); M.A. (Northern Kentucky University); Education
Dr. Raymond Swassing

Julie Lynne Todd, Wooster; B.S., M.S. (Kent State University); Entomology
Dr. Lowell R. Nault

Molly Marie Travis, Cushing, TX; B.A. (Lamar University); M.A. (Stephen F. Austin State University); English
Dr. Walter Davis

Hugo Alberto Valdebenito, Chile; B.A., B.S. (Universidad de Concepcion); Botany
Dr. Tod F. Stuesse

Diana Jean VanCamp, Arlington, VA; B.Mus. (Indiana University); M.Mus. (Florida State University); Music
Dr. A. Peter Costanza

Garrett Warren van Cleef II, Hoboken, NJ; B.S. (Stevens Institute of Technology); Physics
Dr. C. David Andereck

Samuel Joseph Wagner, Columbus; B.S., M.S. (Bowling Green State University); Computer and Information Science
Dr. Bruce Weide

Chang-Kwang Chris Wang, Taipei, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.S. (Tuskegee Institute); Nuclear Engineering
Dr. Thomas E. Blue

Fredric Bryan Weimuller, Columbus; B.S., M.A.; Psychology
Dr. John P. Bruno

Janet Marie Wenzlau, Columbus; B.S. (Denison University); Molecular Genetics
Dr. Philip Perlman

Mate Wierdl, Budapest, Hungary; B.S. (Eotvos University); Mathematics
Dr. V. Bergelson

Elizabeth A. Wilson, London; A.A. (Stephens College); B.A. (Denison University); M.A. (Colorado State University); Communication
Dr. Joseph Pilotta

Martha Ann Wilson, Columbus; B.A. (Wittenberg University); M.A.; Education
Dr. Martin L. Languis

Ching-Li Jimmy Wong, Taipei, Taiwan, R.O.C.; B.S. (Chung-yuan Christian University); M.S.; Industrial and Systems Engineering
Dr. Taylan Altan

Daniel John Wozniak, Grand Rapids, MI; B.S. (Aquinas College); Microbiology
Dr. Darrell R. Galloway

Fangbing Wu, P.R.C.; M.S.; Mathematics
Dr. Henri Moscavi

Huoying Wu, Kaohsiung, Taiwan, R.O.C.; B.A. (National Taiwan University); M.A.; Economics
Dr. Randall Jay Olson

Jausieh J. Wu, Taipei, Taiwan, R.O.C.; B.A. (National Cheng-chi University); M.A. (University of Missouri at Saint Louis); Political Science
Dr. Bradley Richardson
Mary Anne Wynne, Providence, RI; B.S. (State University of New York at Cortland); M.A.; Health, Physical Education and Recreation

Wei-Ning Yang, Taiwan, R.O.C.; B.S. (Tsing-Hua University); M.S.; Industrial and Systems Engineering

Yelena Yesha, Canada; B.Sc. (York University); M.S.; Computer and Information Science

Dr. Barry L. Nelson, Columbus; B.S., B.A. (Otterbein College); M.S.W.; Master of Applied Statistics

Mary Ellen Adams, Columbus; B.S.; Computer and Information Science

R. Miebi Akah, Ukpe, Nigeria; B.S., M.S. (Mankato State University); Health, Physical Education and Recreation

Saad Saleh Aldawood, Riyadh, Saudi Arabia; B.S. (California State University at Los Angeles); Health, Physical Education and Recreation

Nancy Lynn Alkire, Washington Court House; B.S. (Ohio University); English

Joyce Lynn Allan-Smith, Columbus; B.S.Ed. (Kent State University); Education

Vicki Anne Allen-Callahan, Columbus; B.S. (Florida State University); M.A. (DePaul University); Photography and Cinema

Todd Jeffrey Alles, Columbus; B.S.Ed.; Education

Belinda Sue Andrews, Wapakoneta; B.Mu (Bowling Green State University); Music

Gloria Zick Andrews, Columbus; B.A. (Capital University); Journalism

Raejean Thompson Andrews, Marion; B.S.Ed.; Education

Mark Robert Anastett, Columbus; B.A.; Geography

Thomas Edward Antes, Columbus; B.S.Bus.Adm.; Education

Lydia K. Appel, West Jefferson; B.Mus. (Capital University); Mathematics

Kyrionos Chr. Aristotelous, Orounda, Cyprus; B.S. (Iowa State University); M.A. (University of Delaware); Economics

Karl Marie Armbruster, Loveland; B.A. (Miami University); English

Amber Lynne Ault, Columbus; B.A. (Wittenberg University); Anthropology

Susan Elaine Bailey, Columbus; B.S.Ed. (Bowling Green State University); Mathematics

Susan Hanley Baird, Cincinnati; B.A.; Education

Lisa Lomax Ball, Columbus; B.B.A. (Kent State University); Economics

Beverly Johnson Balogh, Columbus; B.S.Al.Hth.Prof.; Education

Kathleen C. Barton, West Redding, CT; B.S. (The King’s College); Education

Jodi Briscoe Bates, Upper Arlington; B.A.; Education

Michael Scott Baumgartner, Versailles; B.A. (University of Missouri at Columbia); Political Science

Edwin Ely Beach III, Columbus; B.B.A. (Hiram University); B.S.Ed.; Education

Karen Meeder Beck, Columbus; B.A. (Wilmingtom College); Education

Evelyn Z. Becker, Columbus; B.A.; B.S. (The University of Cincinnati); Education

Wendy Lynn Becker, Trotwood; B.S. (Ohio University); Education

Louis Herod Bedford, Columbus; B.A.Jour.; Education

Linda Crow Beegle, Worthington; B.S.Ed.; R.N. (Columbus Technical Institute); Health, Physical Education and Recreation

Mark Allan Bender, Columbus; B.A.; East Asian Languages and Literatures

Rebecca Lynn Benfer, New Washington; B.S.Ed.; Education

Debra Lyn Berry, Wilmington; B.A.; English

Lisa Ann Bingham, Columbus; B.A.; Speech and Hearing Science

Barbara Lynn Bishop, Columbus; B.S. (Mount Union College); Education

Denise Marie Blake, Columbus; B.Ed. (Bowling Green State University); Education

Laura Jane Blanchard, Columbus; M.A. (Aberdeen University); Education

David Michael Bloch, Akron; B.A. (Denison University); Anthropology

Laurel Melissa Boone, Bellville; B.S.Ed.; Education

Pamela Webb Brenning, Sidney; B.S.Ed.; Health, Physical Education and Recreation

William L. Brewer, Columbus; B.F.A.; Public Policy and Management

Patricia Ann Briggs, Columbus; B.F.A.; History of Art

Eric Mark Bros, Columbus; B.S. (Northwestern University); Theatre

James Christopher Buffer, Columbus; B.S.Ed.; Education

Robert Stephen Butcher, Wilmington; B.A. (University of Dayton); Health, Physical Education and Recreation

Merryl Patricia Cahill, Worthington; B.S.Ed.; Education

Jun Cai, Shanghai, P.R.C.; B.A. (Fudan University); Economics

270
John William Campbell II, St. Paul, MN; B.A. (Beloit College); Journalism
Loretta Beth Cannon, Columbus; B.S. (Ohio University); Education
Judith L. Carpenter, Columbus; B.S. (Malone College); Education
Cynthia Lynn Carroll, Westerville; B.S. (Miami University); Education
Denise Steppe Carroll, Belgium; B.A. (Rollins College); Romance Languages and Literatures
Linda Carstater, Alexandria, VA; B.A. (Marietta College); Education
Zelda Carter, Baltimore, MD; B.A. (Bowie State University); Journalism
Patricia Ann Case, Columbus; B.S.Ed.; Education
Deborah Moore Cataline, Columbus; B.S.H.S.S. (Ohio University); Education
Cheng-Lin Chang, Taiwan, R.O.C.; B.A. (National Taiwan Normal University); Education
Dan Allen Chase, Columbus; B.A., M.Ed. (Miami University); Education
Chiung Chen, Taiwan; A.B. (China National Normal University); Education
Michael T. Chitwood, Columbus; B.S.Ed.; Education
Carolyn G. Christianson, Hilliard; B.S.Ed.; Education
Denise M. Cifemo, Columbus; B.S.Ed.; Education
Andrew Henry Cinoman, Gaithersburg, MD; B.A. (University of Maryland); Psychology
Maureen Terry Clark, Columbus; B.S.Ed.; Music
Christopher Desmond Coles, Bexley; B.A.; Education
Chris Collaros, Steubenville; A.B. (Princeton University); Education
Julie Christine Comer, Worthington; B.S. (Capital University); Education
Cecilia Leticia Cortes-Monroy, Chillan, Chile; B.A. (University of Chile); Romance Languages and Literatures
Dana Porter Coughlin, Columbus; B.S.Ed.; Education
Kent Michael Curtis, Starkville, MS; B.S. (Mississippi State University); Psychology
Karen Barr Curtis, Ashley; B.S.Ed. (Bowling Green State University); Education
Merri-Lynn Cushman, Columbus; B.A.; Speech and Hearing Science
David Morgan Dahle, Columbus; B.A. (Boise State University); Political Science
Sherry Lynn Daniel, Elyria; B.S.Ed.; Education
Amy Joyce Danzinger, Chesterland; B.A. (Miami University); Education
Jogeshwar Das, New Delhi, India; B.S., M.S. (University of Delhi); Anthropology
Darwin Davis, Cherry Valley, NY; B.A. (Vermont College); Black Studies
Jennifer Joy Davis, Columbus; B.M.E. (University of Colorado); Education
Sarah Katherine Davis, Rushville; B.S. (Health Sciences Center, Okla. City); Speech and Hearing Science
Satish Yeshwant Deodhar, Pune, India; B.A., M.A. (University of Poona); Economics
Pauline Deutz, London, England; B.A. (University of Oxford); Geography
Beatrice Anne Devillers, Paris, France; D.E.S.C.A.F. (ESC Nantes); Business Administration
Annette Marie Devores, Columbus; B.Mus. (West Virginia University); Music
Carol Sue Dick, Madison; B.S.Ed.; Education
Melinda Lou Dixon, Youngstown; B.A. (University of Southern Colorado); Education
David Alan Dorfman, Columbus; B.A. (Washington University); Education
Elaine Kay Doughty, Coshocton; B.S.Ed.; Education
Mary Margaret Drake, Circleville; B.S.Ed.; Education
Janice H. Easterday, Delaware; B.S.H.E.; Education
Deborah Lynn Edwards, Columbus; B.A.; Sociology
Melissa Page Eisen, Mandaalpan, NJ; A.B. (Lafayette College); Journalism
Fusun Erginbilgic, Istanbul, Turkey; B.A., M.B.A., Ph.D. (Bogazici University); Economics
Mehmet Tufan Erginbilgic, Istanbul, Turkey; B.A. (Istanbul Technical University); M.B.A. (Bogazici University); Economics
Jeri Ann Ernest, Heath; B.S.Ed.; Education
Dawn Patricia Flanagan, Columbus; B.S. (University of Massachusetts at Amherst); Education
Cara Fogarty, Queens, NY; B.S. (State University of New York at Oneonta); Journalism
Gregory Lee Foreman, Ontario, Canada; B.Ed. (Union College); Music
Alan Edward Frank, Columbus; B.S.Ed.; Education
Peter Raymond Friel, Columbus; B.S. (University of Dayton); Health, Physical Education and Recreation
Jean Trees Fry, Worthington, B.A. (University of Missouri); B.S.Ed.; Education
Wei Fu, Tanshans, P.R.C.; B.A. (Guang University); Education
Kimberly Ann Gagne, Springfield, MA; B.A. (North Adams State College); Education
Mary Helen Galloway, Columbus; B.S. (Bowling Green State University); Education
Thomas Lloyd Gibeaut, Upper Arlington; B.B.A. (Ohio University); Education
Denise Ellen Gieseeke, Columbus; B.S.Ed.; Education
Donald J. Glenn, Pittsburgh, PA; B.A.; Art Education
Deanna Maria Golden-Kreutz, Columbus; B.S.; M.A. (University of Notre Dame); Psychology
Joseph I. Bengzon Gonzales, San Juan, Philippines, A.B., M.A. (University of the Philippines); English
Margarita Gonzalez Miranda, Rio Piedras, PR; B.A. (University of Puerto Rico); Journalism
Ellen F. Graham, Columbus; B.S.Soc.Wel.; Education
Charles Frederick Gramly, Worthington; B.S.Ed.; Education
Maria Elisa Grau Dieckmann, Indiana; B.A. (City University of New York); Journalism
Daniel Lee Graves, Columbus; B.S.Public Admin. (Franklin University); Education
Peter William Green, London, England; B.A. (University College of London); Classics
Janie Marie Grindley, Port Clinton; B.S.Ed.; Education
Russellen Kathryn Grohoske, Columbus; B.Mus.Ed.; Music
Kimberly Sue Gunter, Columbus; B.A. (Hanover College); Education
Carmela Tancredi Hagerty, Columbus; B.S.H.E.; Education
Laura Susan Hahn, Rocky River, B.A. (Baldwin-Wallace College); Education
Roger Alan Hall, Columbus; B.A.; Psychology
Susan Jane Hall, Columbus; B.A.; Education

Esther Ellen Hanke, Columbus; B.A. (University of Delaware); Linguistics

Sonya Cheney Harle, Columbus; B.S. (Otterbein College); Education

Ronald Anthony Havlice, Parma; B.S.; Education

Stephen Nathan Haymes, Columbus; B.A. (University of New Mexico); Black Studies

Colleen G. Haynes, Mansfield; B.Ed. (University of Toledo); Education

Kay Needham Hedges, Westerville; B.A. (Otterbein College); Education

Joseph Daniel Heeter, Continental; A.A., B.S.Ed.; Education

Andrew Ralph Herr, Berea; B.S. (North Carolina State University); Mathematics

Dana Lynn Herreman, Newark; B.S.Ed. (Bowling Green State University); Education

Gregory Reese Hill, Plantation, FL; B.S.Ed.; Health, Physical Education and Recreation

Karen Carver Hodge, Tuscaloosa, AL; B.A. (Stephens College); Speech and Hearing Science

Jon Thomas Hoffman, Fremont; B.A. (Miami University); History

Kerstin Hoge, Blumenthal, West Germany; Diploma (Freien Universität Berlin); Linguistics

Eugene Wallace Hohwald, Columbus; B.S.Ed.; Education

Sheridan Francis Honore, Cambria Heights, NY; B.A. (Michigan State University); Journalism

Leslie Jaye Hoover, Dayton; B.S. (Ohio University); Education

Kathleen M. House, Columbus; B.A. (Capital University); Education

Wenze Hu, Beijing, P.R.C.; B.A. (Beijing Foreign Languages Institute); East Asian Languages and Literatures

Ya-Chin Huang, Tao-Yuan, Taiwan, R.O.C.; B.S. (Tamkang University); Education

Barbara Gasler Hull, Lake Forest, IL; B.A. (Texas Christian University); Education

Kathleen Ann Hunt, Farmington, NY; B.S. (Cornell University); Education

Lynne M. Hutchinson, Westerville; B.S.Ed.; Education

Jennifer Carol Jacoby, Rossford; B.S. (Miami University); Speech and Hearing Science

Jeannine Marie Jannot, Mt. Vernon; B.S. Education

David Joseph Jecmen, Jenison, MI; B.S. (University of Notre Dame); Psychology

Anning Jing, Zining, P.R.C.; Diploma (Institute of Foreign Languages); Diploma (Xiangtan University); History of Art

Deborah Orr Johnston, Columbus; B.S.Ed.; Education

Lee Jones, Newark, NJ; B.S. (Delaware State College); Education

Linda Chamberlain Jones, Columbus; B.A. (University of Tennessee); Classics

Saundra Lea Jones, Columbus; B.A. (Wittenberg University); Political Science

Dorla Ann Jordan, Galloway; B.S.Ed. (Wright State University); Education

Shelva J. Jordan, Columbus; A.B. (Glennville State College); Education

Thomas Dale Kalous, Boulder, CO; B.S. (Colorado State University); Psychology

Lynn Fredrickson Kaplansky, Columbus; B.S. (Syracuse University); Health, Physical Education and Recreation

Youngmin Kim, Taegu, South Korea; B.A. (Seoul National University); Business Administration

Linda Elise Kinnison, Springfield, B.A. (Miami University); Education

Margaret Rose Kirkhope, Mt. Vernon; B.A. (Ohio Dominican College); Education

Nancy Ellen Kleinsmith, Johnson City, NY; B.S. (Ithaca College); Education

Kip Lorraine Knapp, Cleveland; B.A. (University of Cincinnati); Psychology

Cindy Lou Koch, Columbus; B.S. (Bowling Green State University); Education

Thomas Bernard Koeoting, Milwaukee, WI; B.A. (University of Wisconsin at Eau Claire); Journalism

Sharon Runwinkle Kokot, Columbus; B.A.; M.B.A.; History of Art

Rebecca A. Krieg, Columbus; B.A., B.S. (Otterbein College); Education

Teresa Ann Kusner, Maple Heights; B.A. (Cleveland State University); Speech and Hearing Science

Tracy Marie Lara, Sioux City, IA; B.S. (Briar Cliff College); Health, Physical Education and Recreation

Frank Michael Latella, Columbus; B.Mus. (Yankton College); Music

Susan Marie Lau, Columbus; B.A. (University of Michigan); Education

Edward J. Laughner, Akron; B.S. (Youngstown State University); M.A. (Kent State University); Art Education

Isabelle Christine Lebois, Paris, France; Bacalauréat (Lycée H. de Balzac); Maitrise (Paris VIII University); Art Education

Hugues Leclercq, Roulouns, France; Business (ISC Nancy); Business Administration

Choong-Lyu Lee, Seoul, South Korea; B.A. (Korea University); Economics

Yoon Shil Lee, Seoul, South Korea; B.A. (Ewha Woman's University); Education

Jeffrey Charles Leitner, Austin, TX; B.A. (University of Texas); Journalism

Vivienne Bryndall Levy, England; Diploma (Trinity College of Music); Certificate (Victoria University); Journalism

Mary M. Limes, Marysville; B.S.H.E.; Education

Cheng-Ching Angie Lin, Taipei, Taiwan, R.O.C.; B.Ed. (National Taiwan College of Education); Education

Kuan-Liang Lin, Taipei, Taiwan, R.O.C.; B.A. (Soochow University); Education

Carol Jean Line, Hilliard; B.S.Ed.; Education

Marilyn Ann Logue, Columbus; B.S.Ed. (Bowling Green State University); M.S. (University of Kentucky); Education

Elizabeth Butler Lottes, London, B.A. (Indiana University); Education

Susan Elise Luper, Columbus; B.S.Ed.; Education

Elizabeth Ann Magri, Chardon; B.A.; Speech and Hearing Science

Stephen Todd Majors, Batavia, NY; B.S. (Clarkson University); Journalism

Richard Michael Mangini, Columbus; B.S.Ed.; Education

Linda Lee Markle, Hyde Park, NY; B.A. (Alfred University); Psychology

Jose Da Mata Marques, Columbus; M.Div., M.A. (Catholic Theological Union); Journalism

Bevon Veronica Martin, St. Croix, VI; B.S.Ed. (Oakwood College); Education

Americo Martinez, Westlake, TX; B.S. (Chapungo University); Romance Languages and Literatures

Stacy Ann Martz, Toledo; B.A. (University of Cincinnati); Education

Joseph Otto Mattachione, North Canton; B.A.; Education

Elizabeth Binau Maurath, Columbus; B.S.Ed.; Education

Brian Douglas McAdams, Cincinnati; B.A.; Linguistics

Michelle Mary McAllister, Brockport, NY; B.A. (Hiram College); Sociology
Diane Shirley McCorkle-Reed, Garfield Heights; B.A.: English
Ellen Vance McCay, Aurora; B.S.Bus.Adm.; Education
Sally Jo Meckling, Mansfield; B.A.: English
Marjorie Louise Mershon, Warren; B.A.: Education
Cynthia Sue Metcalfe, New Haven; B.S.Ed.; Education
Gayle Hall Miller, Columbus; B.A. (Miami University); Education
Paul Brian Miller, Granville; B.A. (The College of Wooster); M.A.; Philosophy
Stephen Anthony Miller, Columbus; B.S.Ed.; Education
Peter Edmund Millet, Detroit, MI; B.A. (Oakland University); Psychology
Elizabeth A. Mills, Fair Lawn, NJ; B.S. (State University of New York at Geneseo); Education
Michael Everett Mills, Columbus; B.S.Bus.Adm.; Education
Matt K. Mindlin, Columbus, B.A.; Art Education
John Thomas Minot, Columbus, B.S.; Education
Lucinda Eugenia Mires, Findlay; B.Mus. (Heidelberg College); Education
Jacqueline Brooks Mitchell, Marion; B.S. (Ohio Wesleyan University); Education
Adena Spohn Moore, Worthington; B.A. (University of Washington at Seattle); M.S. (University of Wisconsin at Madison); Education
Robbie Morganfield, Columbus; B.A. (University of Mississippi); Journalism
Kathy May Morland, Worthington; B.S.; M.S.; M.L.S. (Kent State University); Education
Carol J. Moss, Columbus; B.S.H.E.; Education
James Edward Moss, Columbus; B.A. (Ohio Dominican College); Black Studies
Christopher Allen Moyer, Fairborn; B.S.; M.B.A. (Wright State University); Business Administration
Amy Bates Muccio, Columbus; B.S.Ed.; Education
Joe Mudry, Brook Park; B.A. (Baldwin-Wallace College); History
Sharon Mueller, Columbus; B.S.Ed.; Education
Roopali Mukherjee, India; B.A. (University of Poona); Communication
Tracey Lynn Nash, Columbus; B.A. Religion (Kenyon College); Education
Eva Elaine Nelson, Columbus; B.A. (Jersey City State College); Education
Mary Gall Neuding, Mt. Gilead; B.S.Ed. (Bowling Green State University); Education
Edith Ann Newell, Columbus; B.S.Ed.; Education
Theresa Dominica Nicassio, Alta Loma; B.A. (The University of Southern California); Psychology
Jenny Lynn Nicely, Powell; B.S.Ed.; Education
Hyung Gyoo Noh, Seoul, South Korea; B.A. (Korea University); Economics
Rosemarie November, Cortland; B.A.; Speech and Hearing Science
Gabriel Kalalambe Nzalayaimisi, Dar es Salaam, Tanzania; B.Div. (Makumira Theological College); Black Studies
Douglas Alan O'Roarke, Portsmouth; B.A.; History
Hisami Okada, Japan; B.A. (Nanzan University); East Asian Languages and Literatures
Manuel Pace, Columbus; B.A.; Education
Laurel Deis Page, Worthington; B.S. (Miami University); Education
Mary Catherine Paraskos, Columbus; B.A. (Bryn Mawr College); Education
Jacqueline Ann Pate, Columbus; B.S.H.E.; Education
Gregory George Paulmann, Columbus; B.A. (Ohio Dominican College); Education
Vicki W. Payne, Columbus; B.A. (Grove City College); Psychology
Linda Sue Peel, Blacklick; B.S.H.E.; Health, Physical Education and Recreation
Susan Esther Pflaumer, Hamilton; B.S. (Miami University); Education
Julia Christian Phillips, Shaker Heights; B.S.; Psychology
William Clayton Phipps, Delaware; B.S. (University of Cincinnati); M.Div. (Garrett Theological Seminary); Education
Nancy Kuhn Pitt, Amlin; B.S.Ed.; Education
James Troy Pokas, Martins Ferry; B.A. (Miami University); Sociology
Michea Lynne Pope, Buffalo, NY; B.A. (Kentucky State University); Education
Cynthia Ann Poston, Columbus; Bachelor's (School for International Studies); Education
Renee Shulman Prayzer, Columbus; B.S.Ed.; Education
Mary Alicia Priestley, Columbus; B.S. (Miami University); Education
Molly Gene Proto, Columbus; B.A.; Education
Anton Frank Przybylski, Jr., Wauapaca, WI; B.S. (University of Wisconsin at Stevens Point); Mathematics
Rajai Jeries Qusus, Amman, Jordan; M.A. (Yarmouk University); Economics
Christine Ann Rainey, Columbus; B.S.Ed. (Bowling Green State University); Education
Barbara Wilson Reed, Columbus; B.S. (University of Illinois); Education
Douglas Donald Reeder, Columbus; B.A. (Spring Hill College); Health, Physical Education and Recreation
Frederick John Reitano, Columbus; B.S.Ed.; Education
Lizabeth Lynn Reyer, St. Paul, MN; B.A. (University of Minnesota); Political Science
Timothy Brooks Rice, Montpelier; B.S. (Miami University); Education
Mary Jo M. Richards, Worthington; B.S.Ed. (University of Delaware); Education
Nancy Juanita Richards, Powell; B.S. (Bowling Green State University); Education
Tatsha Carincia Robertson, Granville, SC; B.A. (Morris College); Journalism
Andres Gerardo Rodriguez, San Jose, Costa Rica; Bachelor's (University of Costa Rica); Economics
Todd Jay Rogers, Columbus, B.S. (Urbana University); Education
Erik Rolland, Bergen, Norway; B.S.C.I.S.; M.S. (Norweigen Institute of Technology); Business Administration
Brenda Kay Rose, Westerville; B.S.Ed.; Education
Charles Kenyatta Ross, Columbus; B.A. (Stillman College); Black Studies
Susan Libbe Rudolph, Lima; B.A. (Wittenberg University); Education
Jean Marie Sadeckas, Warren; B.S.Ed. (Youngstown State University); Education
Judith Ann Salzman Kenny, Columbus; B.Mus. (Capital University); Education
John Philip Sanchez, Topeka; KS; B.A. (Washburn University); M.S. (University of Southwestern Louisiana); Journalism
Alice Denise Sanders, Memphis, TN; B.A. (Lane College); Music
Colleen Chambers Sasson, South Bend, IN; B.S. (Purdue University); Education
Bonnie Ellen Schall, Stow; B.S.; Education
Natalie Schaublin, Lima; B.S. (Bowling Green State University); Education

Susanne Schmiedl, West Germany; Diploma (Evangelische Stiftungsakademie); Sociology

Scott Randall Schnell, Apple Creek; B.S.Nat.Kes., M.S., M.A.; East Asian Languages and Literatures

David Victor Schulz, Indianapolis, IN; B.A. (Wabash College); Theatre

Julia Anne Shade, Whitehall; B.S. (Capital University); Education

Kristine Lucille Sherrick, Nova; B.S.Ed.; Education

Timothy Alan Shipe, Dublin; B.A.; Education

Jill Susan Shleier, Dayton; B.S.Ed.; Education

Florence L. Short, Columbus; B.A. (Antioch College); Education

Konstanty Bryan Siemaszko, Chicago, IL; B.A. (University of Illinois at Chicago); Journalism

Hatesh Kumar Singh, Roorkee, India; B.E., M.S. (Birla Institute of Technology and Science); Economics

Maribeth Slovakya, Columbus; B.S. (Youngstown State University); Education

Jeffrey Phillip Smith, Galloway; B.S.Ed.; Mathematics

Rozanne Smrtnik, Columbus; B.A. (Miami University); Education

Tracy Hankins Solli, Columbus; B.S.Agr.; Education

Jennifer Jean Speers, Huron; B.A. (Miami University); Economics

Dennis Stephen Spisak, Columbus; B.S. (Ohio University); Education

Mary Jane Squires, Lorain; B.S.Ed. (Kent State University); Education

Dianne Marie Stammen, Columbus; B.S.Ed. (Bowling Green State University); Education

Tamara Lynne Stiver, Hyde Park, NY; B.S.Agr.; Education

Kim Elizabeth Stucki, Columbus; B.S. (Wheaton College); Mathematics

Carina Sudarsky-Gieler, Bogota, Colombia; Psychology

Debra Anne Susli, Worthington; B.S.H.E.; Education

Eric John Sweetstaf, Columbus; B.A.; Photography and Cinema

Koan Tarn, Columbus; B.S.; Education

Robert Lee Taylor, Portsmouth; B.Mus. (Morehead State University); Music

Tina Marie Thompson, Marion; A.A., B.A.; Journalism

Kyle S. Thorne, Columbus; B.A.: Health, Physical Education and Recreation

Joseph McCain Thrower, Columbus; B.Mus.Ed.; Music

Michele Beth Timmer, Dayton; B.S. (University of Cincinnati); Education

Mark Stephen Tingley, Germantown; B.A. (Wittenberg University); Education

Stephen Joseph Tittre, Joliet, IL; B.S. (Northern Illinois University); Health, Physical Education and Recreation

Kyoko Tokashiki, Japan; B.A. (Kansai University of Foreign Studies); East Asian Languages and Literatures

Sandra Ann Trask, Columbus; B.S. (Ohio Dominican College); Education

Michael Alan Tregeo, Chillicothe; B.S., M.S. (Ohio University); Education

David Michael Trevino, San Benito, TX; B.M., M.S. (Corpus Christi State University); Music

Thomas Stanley Tucker, Cotton Plant, AR; B.A. (Philander Smith College); Education

Frida Deogratias Tungaraza, Dar es Salaam, Tanzania; B.A., M.A. (University of Dar es Salaam); Education

Vasundhara Unnava, Hyderabad, India; B.Tech. (Iswaharial Nehru Technical University); Business Administration

Naomi Nishiuma Valentine, Columbus, BS, (Asia University); East Asian Languages and Literatures

Roni (Veronica) G. Valentino, Columbus; B.S. (Bowling Green State University); Education

Emily Ann Vazquez, Galion; B.S.Ed.; Education

Norma Elsa Villarreal-McKee, Mexico; B.A. (Pan-American University); Romance Languages and Literatures

Laura Ann Vivyan, Columbus; B.S.H.E.; Education

Barbara Davit Voilig, Columbus; B.S.Ed.; Education

Andrea Jane Von Ameluuxen, Little Neck, NY; B.A. (Wittenberg University); Education

Magda Walter, Columbus; M.A. (Warsaw University); Journalism

Alice Madeline Walters, Newark; B.S.Agr.; Journalism

Jona Erica Warner, St. Thomas, VI, B.S. (Armstrong State College); Education

Marie Pauline Waung, Akron; B.A. (Miami University); Psychology

Kathleen Anne Weigand, Cleveland Heights; B.A. (Case Western Reserve University); History

Jane Annette Welch, Mechanicsburg; B.A. (Wilmingon College); Education

Susan J. Wendl, Columbus; B.A.; Speech and Hearing Science

Elizabeth Ann Wentz, Huron; B.S.; Geography

Nancy Lynn Wharton, Springboro; B.S. (Miami University); Education

Howard Gary Wheat, Tuscaloosa, AL; B.A. (The University of Alabama); Journalism

Cathy Massie White, Circleville; B.S.Ed.; Education

June Virginia White, Worthington; B.S.Ed. (Bowling Green State University); Education

Deborah Lynn Widder, Cincinnati; B.S.A.H.H.Pros.; Journalism

Darlene Lee Wilcox, Woodland, CA; B.A. (California State University at Northridge); Geography

Anna Marie Williams, Columbus; B.A. (Fisk University); Education

Brian David Williams, Columbus; B.A.; Journalism

Lisa Anne Williams, Columbus; B.S.Ed.; Education

Sarah Jean Williams, Centerburg; B.S.H.E.; Education

Elisabeth Anne Wilson, Warren; B.A. (Villanova University); Education

Linda F. Wright, Harrisburg; B.A. (Pikeville College); Education

Cheryl L. Wynknop, Columbus; B.S.Ed. (Miami University); Education

Chen-Chi Yang, Taiwan, R.O.C.; B.A. (Chengchi University); Education

Hung-Yi Yang, Taipei, Taiwan, R.O.C.; B.A. (Fu-Jen Catholic University); Economics

Julie Ann Yanggen, Madison, WI; B.A. (University of Wisconsin at Madison); Education

Jhan Christine Yoder-Wyse, South Vienna, B.A. (Capital University); Education

David William Young, South Holland, IL; B.A. (Northwestern University); History
Master of City and Regional Planning
Shohreh Elhamimanesh, Tehran, Iran; B.Arch. (National University of Iran); City and Regional Planning
Amrah Harun, Terengganu, Malaysia; B.A. (University of Southwestern Louisiana); City and Regional Planning
Hsiu-Wei Kan, Taipei, Taiwan; R.O.C.; B.S. (National Taiwan University); City and Regional Planning
Dah Ming Shiah, Hsin Chue, Taiwan, R.O.C.; B.S. (Fang-Chin University); City and Regional Planning
Tsui-Yi Tseng, Miaoli, Taiwan; R.O.C.; B.A. (Chinese Culture University); City and Regional Planning

Master of Fine Arts
Solla Carrock, Columbus; B.F.A. (Pacific Northwest College of Art); M.S. (Portland State University); Art
William Robert DeForest III, Oswego, NY; B.F.A. (State University of New York at Oswego); Art
Stephen Michael Deorio, Canton; B.F.A. (Cleveland Institute of Art); Art
Suzanne Claire Evenson, Worthington; B.S.H.E., M.S.W.; Art
Prudence Yates Gill, Miami, FL; B.A. (State University of New York at Fredonia); Art
Mary Louise Greene, Columbus; B.A. (University of Arkansas); Art
Jack Pascal Harrison, Columbus; B.F.A. (University of Georgia); Art
Joseph Ihns, South Bend, IN; B.A. (Purdue University); Art
Francis Jackson Janes, Gainesville, FL; B.F.A. (University of Florida); Art
Ming Te Lin, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan Normal University); Art
Anthanasios Maggioros, Athens, Greece; B.F.A.; Art
Christina Caravajal Quiroz, San Antonio, TX; B.F.A. (Corpus Christi State University); Art
Robert Tavan, Erie, PA; B.F.A. (Columbus College of Art and Design); Art
Renee Ann Witherver, Columbus; B.F.A. (University of Nebraska at Lincoln); Art

Master of Labor and Human Resources
Kathy Patin Arcement, Blacklick; B.S. (Texas A & M University); M.S. (California State University at Hayward); Labor and Human Resources
Barbara Armitage, Elyria; B.S.Ed.; Labor and Human Resources
Christine Louise Cooper, Lancaster, PA; B.S. B.S. (Elizabethtown College); Labor and Human Resources
Lynn Ann Ervin, Edmonton, Alberta, Canada; B.S.Bus Adm.; Labor and Human Resources
Anthony Martin Fischer, Columbus; B.A. Labor and Human Resources
Margaret Mary Green, Monroe; B.S. (University of Dayton); Labor and Human Resources
Bette Jean Hartschuh, Columbus; B.S.Ed.; Labor and Human Resources
Hugh David Hindman, Columbus; B.A.; (College of Wooster); M.A.; Labor and Human Resources
Dorothy Ann Rado, Dayton; B.A. (Earlham College); M.S.W.; Labor and Human Resources
Charles George Smith, Cleveland; B.A. (John Carroll University); M.S. (University of Cincinnati); Labor and Human Resources
Charles G. Turner, II, Bellfontaine; B.A. (University of Kentucky); Labor and Human Resources
Diana Lynn Weaver, Marysville; B.S. (Bowling Green State University); Labor and Human Resources

Master of Landscape Architecture
Leigh Anne Dunworth, Kansas City, MO; B.A. (Wichita State University); Landscape Architecture
Whee Kyoung Kang, South Korea; Bachelor's (Kyunghee University); Landscape Architecture
Arrug Ouiyamapun, Bangkok, Thailand; B.Land.Arch. (Chulalongkorn University); Landscape Architecture
Djakaria Surayana Prawirana, Bandung, Indonesia; B.A. (Catholic University of Parahyangan); Landscape Architecture
Robert Paul Tucker, Little Rock, AR; B.Land.Arch. (University of Arkansas); Landscape Architecture
Philip Gerard Tworek, Omaha, NE; B.A.F. (University of Nebraska at Lincoln); Landscape Architecture

Master of Public Administration
Jan-Hsin Cheng, Taipei, Taiwan, R.O.C.; B.S. (Tunghai University); Public Policy and Management
Shujen Lin, Taipei, Taiwan, R.O.C.; B.A. (National Chengchi University); M.A.; Public Policy and Management
Derrick Parham, Saginaw, MI; B.S.Soc.Wel. (Southern University Agricultural and Mechanical College); Public Policy and Management

Master of Science
Larbi Aboubaladi, Rabat, Morocco; B.S. (Institute of Agriculture and Veterinary Medicine); Geodetic Science and Surveying
Mark Steven Ackerman, Millersport; B.S. (Pennsylvania State University); Nuclear Engineering
Jacqueline Marie Akah, Columbus; B.S.N. (Mankato State University); Nursing
Raid Ali Jawad Al-Tahir, Baghdad, Iraq; B.S. (University of Baghdad); Geodetic Science and Surveying
Abdulrahman Al, Alhamdani, Riyadh, Saudi Arabia; B.S. (King Saud University); Agricultural Engineering
Alpesh Parmandan Amin, England; B.S. (University of Texas at Austin); Electrical Engineering
Peter John Angeline, Greensburg, PA; B.S. (Carnegie-Mellon University); Computer and Information Science
Nitin Srinivas Apte, New Delhi, India; B.Tech. (Indian Institute of Technology); Industrial and Systems Engineering
Yong-Kook Bae, Seoul, South Korea; B.S. (Yonsei University); Chemical Engineering
Kimberly Anne Baker, Nashport; Natural Resources
Shankar Baldwin, Madras, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering
Soowon Kim, Seoul, South Korea; B.S.E.E. (Seoul National University); Bio-Medical Engineering

Richard Franz Kueller, Freeport, IL; B.S. (Iowa State University); Chemical Engineering

Wanduramba Hewage Dailin Kularatne, Sri Lanka; M.S. (People's Friendship University); Agricultural Economics and Rural Sociology

Chi-Ming Kwok, Hong Kong; B.S. (University of Hong Kong); Mathematics

Judith Louise La Rosa, Parma; B.S.Cer.E.; Ceramic Engineering

Scott Maclaren Lawrence, Wilmington, DE; B.S. (Wake Forest University); D.D.S. (West Virginia University); Dentistry

Kun-bok Lee, Seoul, South Korea; Bachelor's (Hanyang University); Master's (Han Yang University); Industrial and Systems Engineering

Berry Siu-Fung Leung, Hong Kong; B.S. (Northeastern University); Electrical Engineering

Ira Seth Levenson, Worthington; B.A. (Queens University); D.D.S. (Columbia University); Dentistry

Juhn-Shyue Lin, Taiwan, R.O.C.; B.S. (National Taiwan University); Mechanical Engineering

Lte Lin, Beijing, P.R.C.; B.S. (Peking University); Physics

Louie Yu Liu, P.R.C.; B.S. (Tsinghua University); Nuclear Engineering; Mechanical Engineering

Madhumita N Lodh, Bandra, India; B.S. (Bombay University); Statistics

Stephen John Lukezich, Calumet, MI; B.S. (Michigan Technological University); Metallurgical Engineering

Leon Jairo Madrid, Colombia; B.S. (Universidad Pontificia Bolivariana); Electrical Engineering

Lawrence Michael Maloney, Mayfield; B.S.M.E. (GMI Engineering and Management Institute); Industrial and Systems Engineering

Clarissa Jos Manese Maroon, Bay, Philippines; B.S. (University of the Philippines at Los Banos); Plant Pathology

Gwendolyn C. Martin, Columbus; B.S. (Purdue University); Home Economics

Sandra Louise Martinelli, Columbus; B.S.Nurs.; Nursing

Jette Falsig Meicgan, Denmark; M.S. (Aalborg University Centre); Mechanical Engineering

Gregory Robert Merrill, Ottawa, Canada; B.Tech. (Ryerson Polytechnical Institute); Welding Engineering

Thomas Edward Miller, Elyria; B.S., M.S. (Eastern Kentucky University); Industrial and Systems Engineering

Sudipta Kumar Misra, Bhutaneshwar, Drissa, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

Andreas Mitschele-Thiel, Schwieberdingen, West Germany; Diploma (Fach. Fur Tech. Esslingen); Computer and Information Science

Seung-Il Moon, Beolygo Chollanam-Do, South Korea; B.S. (Seoul National University); Electrical Engineering

Kevin Patrick Moore, Bay City, MI; B.S.M.E. (GMI Engineering and Management Institute); Mechanical Engineering

Douglas James Morrison, St. Louis, MO; B.S. (Ferris State College); Geodetic Science and Surveying

Monique Diane Mosher, Albuquerque, NM; B.S. (New Mexico State University); Dairy Science

John Robert Mudd, Westerville; B.S.C.I.S.; Computer and Information Science

Rebecca A. Mula, Columbus; B.S. (The Pennsylvania State University); Electrical Engineering

Ye Myint, Mandalay, Burma; Bachelor's (Institute of Economics); Agricultural Economics and Rural Sociology

Gail Junko Nakamura, Los Altos, CA; B.S. (The University of California at Davis); Bio-Medical Engineering

Robert A. Nist, Hilliard; B.S., D.D.S.; Dentistry

Warren Ben Nothnick, Franklinville, NJ; B.S. Agr.; Dairy Science

Timothy Joseph Nye, Amherstburg, Ontario, Canada; B.A. (The University of Waterloo); Industrial and Systems Engineering

Laura Jane Obenour, Zanesville; B.S.H.E.; Home Economics

Carl A. Olen, Cleveland; B.S. (Cleveland State University); Electrical Engineering

Lars Arthur Pekay, Cleveland; B.S. (Wake Forest University); Chemistry

Jia-Der Peng, Chia-Yi, Taiwan, R.O.C.; B.S. (Chung-Yuan Christian University); Civil Engineering

Russell William Poe, Carmel, IN; B.S. (University of Michigan); Chemistry

Mary Temple Post, Columbus; B.S.N. (Oregon Health Sciences University); Nursing

Cynthia Lynn Price, Mt. Vernon; B.S.Agr.; Agricultural Education

Sabrina Caroline Pugh, Grandville, MI; B.S.H.E.; Home Economics

Troy Lee Purdin, Greenfield; B.S. (Bowling Green State University); Home Economics

Christine Louise Quinn, Los Angeles; C.A. A.B. (Occidental College); D.D.S. (University of Southern California); Dentistry

Anupa Vilay Ramaiya, Bombay, India; B.Tech. (Indian Institute of Technology); Aeronautical and Astronautical Engineering

Anil Sathyanarayana Rao, Bangalore, India; B.Tech. (Indian Institute of Technology); Computer and Information Science

Mohammad Zayed Raqab, Muqablein, Jordan; B.S., M.S. (University of Jordan); Statistics

Wendy Lee Reiboldt, Hamilton; B.S. (Miami University); Home Economics

Bernard James Rengil, Kent; B.S.M.E.; Mechanical Engineering

Ingrid Karen Richards, Tacatigua, Trinidad & Tobago; Home Economics

Darcie Jean Richardson, Novelty; B.A. (Hiram College); Botany

Ricky Duane Rudd, Columbus; B.S.Agr.; Agricultural Education

Keith Edward Rupel, North Liberty, IN; B.S. (Purdue University); Mechanical Engineering

Christine Louise Ruther, Dayton; B.S. (Xavier University); Bio-Medical Engineering

Esmee1 Saminy, Columbus; B.S. (State University of New York at Stony Brook); Mechanical Engineering

Agus Santoso, Temanggung, Indonesia; B.S. (Garjaman University); Geodetic Science and Surveying

Suryaarakchige Dayaratne Sarathchandra, Sri Lanka; B.S. (University of Colombo); Diploma (Institute of Surveying and Mapping); Geodetic Science and Surveying

Karen Marie Sassen, Nashport; B.S. (Ohio University); Nursing

Tammy Hoshor Scheidegger, Baltimore; B.S.H.E.; Home Economics

Peter O. Schwartz, Columbus; A.B. (University of California at Berkeley); Mathematics
Offered jointly by the College of the Arts and the College of Education

Bachelor of Arts

Dean: Donald Harris

Tiberiu D. Dabo, Columbus
Charles Christopher Fritsch, New Albany
Wendy Elaine Haddaway, Columbus
Rick Alan Kinzel, Brooksville
Gillian Justine Lancione, Columbus
Cheryl Lynne Moland, Columbus
Brian Phillip Marcus, Columbus
Charles Christopher Fritsch, New Albany
Jeffrey Clarke Sampson, Yellow Springs
Lori Christina Barden, Columbus
Sherry Scott Andrew, College of the Arts
Robert M. Arkin

Bachelor of Science in Industrial Design

Duane Joseph Belotti, Montville, NJ
Peter Ward Cameron, Lima
Andrew George Irvin, Columbus
Lynn Louise Powelson, Elyria
Brian Douglas Griffin, Columbus

Bachelor of Science

Dean: William A. Jensen

Anthony Lee Clemmons, Carlisle
Joseph A. Galusick, Columbus
Christopher Paul Detrick, Columbus
Harry Louis Linardos, Springfield

Bachelor of Science Education

Michael Darin Alter, Youngstown
Andrew Robert Barrienbrock, Grove City
Kevin Lee Beggs, Columbus
Abha Berdia, Raleigh, NC
Barbara Jean Buczkiewicz, Akron
Nicholas Harding Burnett, Medford, NJ
Stephanie Kay Butler, Columbus
Barbara Ann Byers, Findlay
Marc Alan Cameron, Gallipolis
Kendall Davis Carey, Akron
Anthony C. Carlo, Girard
Richard James Ciobot, Poland
Shawn Christopher Comella, Lakewood
Joanna Marie Ehrman, Toledo
Laura Kathleen Gigas, Westerville
Holly Cotrell Irvin, Covington
Sarah Jacob, Macedonia
Sherri Corinne Kalb, Marion
Theresa M. Kim, West Chester
Carmen Anthony Lorusso, Struthers
Marja Milejczyk, Hilliard
Patrick Henry Nepomuceno, Farmington, CT
Kenneth John Patterson, Parma
James Antonio Pilla, Bethel Park, PA
Michael Joseph Rish, Marion

Bachelor of Arts

Dean: Donald Harris

Sharon Ann Kelly, Euclid
Dana Paul Rowe, Columbus
Jeffrey Clarke Sampson, Yellow Springs
Sherry Scott Andrew, College of the Arts
Loreen Louise Yinger, Sidney

Bachelor of Fine Arts

Jill Marie Davis, Columbus
Sherry Lynn Gingery, Dover
Brian Phillip Marcus, Columbus
Brian Phillip Marcus, Columbus
Marie Therese Mascarello, Columbus
Adam D. Santelli, Columbus
David Michael Taylor, Moundsville, WV
Diane Marie Vanik, Columbus

Bachelor of Music

Michael Joseph Ferguson, Cincinnati
Dana Paul Rowe, Columbus

Bachelor of Art Education

Shanley Renay Smith, Steubenville

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Sherry Ann Adams, Dayton
Andrea Jane Applegate, Worthington
Patrick Michael Bellamy, Columbus
Michelle Lori Bloom, Columbus
Todd Martin Bowden, Novelty
Cynthia Ann Breda, Columbus
Eugene Vincent Brugger, Westerville
Jill Tiberiu D. Dabo, Columbus
Gerald Anson Harvey, Grove City
Andrew George Irvin, Columbus
Lynn Louise Powelson, Elyria
Brian Douglas Griffin, Columbus

College of Biological Sciences

Dean: William A. Jensen

Anthony Lee Clemmons, Carlisle
Joseph A. Galusick, Columbus
Christopher Paul Detrick, Columbus
Harry Louis Linardos, Springfield

College of Physical Sciences

Chairman, Coordinating Council of
The Colleges of the Arts and Sciences, a
federation of five colleges, includes:
College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical
Sciences
College of Social and Behavioral Sciences

College of the Arts

Dean: Donald Harris

Bachelor of Music Education

Gerald Anson Harvey, Grove City
Stephen Paul Detrick, Columbus
Andrew George Irvin, Columbus
Lynn Louise Powelson, Elyria
Bonnie Lou Weaver, Lockbourne

Bachelor of Science

Dean: William A. Jensen

Anthony Lee Clemmons, Carlisle
Joseph A. Galusick, Columbus
Christopher Paul Detrick, Columbus
Harry Louis Linardos, Springfield

Bachelor of Arts

Anthony Lee Clemmons, Carlisle
Joseph A. Galusick, Columbus
Christopher Paul Detrick, Columbus
Harry Louis Linardos, Springfield

Bachelor of Science Education

Michael Darin Alter, Youngstown
Andrew Robert Barrienbrock, Grove City
Kevin Lee Beggs, Columbus
Abha Berdia, Raleigh, NC
Barbara Jean Buczkiewicz, Akron
Nicholas Harding Burnett, Medford, NJ
Stephanie Kay Butler, Columbus
Barbara Ann Byers, Findlay
Marc Alan Cameron, Gallipolis
Kendall Davis Carey, Akron
Anthony C. Carlo, Girard
Richard James Ciobot, Poland
Shawn Christopher Comella, Lakewood
Joanna Marie Ehrman, Toledo
Laura Kathleen Gigas, Westerville
Holly Cotrell Irvin, Covington
Sarah Jacob, Macedonia
Sherri Corinne Kalb, Marion
Theresa M. Kim, West Chester
Carmen Anthony Lorusso, Struthers
Marja Milejczyk, Hilliard
Patrick Henry Nepomuceno, Farmington, CT
Kenneth John Patterson, Parma
James Antonio Pilla, Bethel Park, PA
Michael Joseph Rish, Marion

Bachelor of Music

Michael Joseph Ferguson, Cincinnati
Dana Paul Rowe, Columbus

Bachelor of Art Education

Shanley Renay Smith, Steubenville

College of the Arts and Sciences

Chairman, Coordinating Council of
Deans: Joan Huber

Associate Dean for Undergraduate Studies
in the Arts and Sciences:
Robert M. Arkin

The Colleges of the Arts and Sciences, a
federation of five colleges, includes:
College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical
Sciences
College of Social and Behavioral Sciences

College of the Arts

Dean: Donald Harris

Bachelor of Arts

Tiberiu D. Dabo, Columbus
Charles Christopher Fritsch, New Albany
Wendy Elaine Haddaway, Columbus
Rick Alan Kinzel, Brooksville
Gillian Justine Lancione, Columbus
Cheryl Lynne Moland, Columbus
Scott Andrew Orts, Monroe
Jeffrey Clarke Sampson, Yellow Springs
Lorren Louise Yinger, Sidney

Bachelor of Fine Arts

Jill Marie Davis, Columbus
Sherry Lynn Gingery, Dover
Brian Phillip Marcus, Columbus
Lisa Ann Herbold, Columbus
Sharon Ann Kelly, Euclid
Ruth Lillie Maclin, Columbus
Brian Phillip Marcus, Columbus
Marie Therese Mascarello, Columbus
Adam D. Santelli, Columbus
David Michael Taylor, Moundsville, WV
Diane Marie Vanik, Columbus

Bachelor of Music

Michael Joseph Ferguson, Cincinnati
Dana Paul Rowe, Columbus

Bachelor of Art Education

Shanley Renay Smith, Steubenville

College of Education
Linda Sue Tullis, Hilton Head, SC
Lisa Lynne Wachs, Cincinnati
Kirk Matthew Wall, Columbus
Van Roger Williams, Ottawa
Kimbra Marie Winnestaffer, Columbus
Paul Frederick Woodward, Mansfield
Dawn Elena Yoakam, Columbus
Doug Robert Zaper, Jr., Toledo

College of Mathematical and Physical Sciences
Dean: C. William Kern

Bachelor of Arts
John Tod Betts, McDonald
David Alan Coleman, Columbus
Mary Elizabeth Heist, Alexandria
Brian Edward Jones, Columbus
Scott Allen Martin, Shelby
Richard Edward Raabe, Parma
Timothy Allen Thrailkill, Portland, OR

Kelley Rae Anderson-Young, Springfield
Darrell Elliott Ansted, Sylvia
Matthew Lee Arntz, Strongsville
Rodney Allen Atkins, Worthington
C. Todd Bailey, Pittsburgh, PA
Jeanne Marie Basuck, Columbus
Scott Eric Baughman, Sylvania
Kelly Lynn Bell, Elizabeth City, NC
Amy Lynn Betz, Maumee
Deborah Elyse Blackney, Worthington
Betsy Lynn Blair, Columbus
Arnold Dale Blankenship II, Frazesburg
Elizabeth Kay Bonar, Mansfield
Kimberly Ann Bosko, Johnstown
Eric Joseph Byles, Sylvania
Donita Evonne Brown, Forest Park
Scott Fitzgerald Brown, Worthington
Sharon L. Bucher, Mansfield
John Andrew Burns, Canfield
Thelma Rosario Butts, Sevilla, Spain
Linda Sue Casas, Gahanna
Jenny Lee Chaplik, Tallmadge
Deborah Jean Cheola, Warren
Joseph Michael Cirillo, Akron
Caritha Lanette Clarke, Felton, DE
Charles Robert Coffey, Lyndhurst
Lisa Lynn Conant, Westerville
Ann Kathleen Conroy, Centerville
Kristofer Myron Cooper, Cincinnati
John Curtis Cornett, Columbus
Deirdre Jo Correale, Columbus
Steven St. Leger Cox, Akron
Jamie Lynn Cruikshank, Hebron
Brenda Kay Dalton, Westerville
Roger Lynn Damron, Galion
Anne Elizabeth Davis, Bay Village
Gregory John Demos, Dayton
Daryl Tremayne Dennis, Cincinnati
Charles Michael Diening, Delaware
Kimberly Kay Dill, Columbus
Teena Diane Dixon, Columbus
Marilyn Susan Diesz, Mansfield
Emily Christine Dunn, Columbus
Steven Joel Erd, Toledo
Douglas Richard Ervin, Columbus
Michael Joseph Failla, Vincentown, NJ
Scott Robert Fenstermaker, Worthington
Victor Scott Fishman, Columbus
Douglas Frederick Flowers, New Albany
Todd Anthony Fournier, Columbus
Jeffrey David Friedman, Canton
Adam Pritz, Columbus
James Roger Fulker, Troy
Jack Leslie Ganues, Oregon
Jennifer Robin Geary, Ashley
Andrea Kari Gibbe, Columbus
Betty Glasmeyer, Marion
Kerry Dee Gleich, Columbus
Daryl David Gordon, Cleveland
Michael Charles Grabner, North Canton
Timothy Thomas Sutton Gray, Zanesville
Sharon Ann Grusendorf, Mentor
Lisa Lee Halcomb, Waverly
Diana Lynn Hallas, Louisville
Mark Richard Harshbarger, Wakapunaeta
Nate Kay Hefner, Bay Village
Lora Ann Herf, Celina
Jeannette Hernández López, Bayamón, PR
Robin Lynn Hilton, Columbus
William Michael Homka, Vermilion
Carol Jil Hothensl, Columbus
Brian Matthew Hoyland, Columbus
Heather Marie Huff, Maineville
Matthew Lewis Hughes, New Riegel
Gregory W. Illig, Brunswick
Bradley Scott Jester, Worthington
Bryant Odell Johnson, Washington, DC
Kathleen Therese Jones, Rochester, NY
Kathleen Ann Kinnair, Youngstown
Marianne Kirsch, Oregon
James Dale Kauffman, Columbus
Sonya Roberta Kearney, Philadelphia, PA
Karen Margaret Kiener, Columbus
Erik Eugene King, Columbus
Glenn Michael Klaes, Dearborn, MI
Randall Ross Kolin, Beachwood
Charles Edward Kullik, Jr., Fairview Park
Robert Matthew Laurita, Smithtown, NY
Michael John Leckwatch, Columbus
Paula Jean Logan, Middletown
Michelle Marie Lorch, Kirkwood, MO
Deborah Ann Mac, New Kensington, PA
David Brian Mackey, Groveport
Adrian Malik, Columbus
Hilary Renée Masser, West Bloomfield, MI
John Roger Matthews II, Marion
Kimberly René McCarthy, Granville
Charles Edward McGoarty, Columbus
Kathryn Elizabeth McGuire, Upper Arlington
Brian Charles McNish, Delta
Lisa Jean McKibben, Sunbury
Amy Jane Catherine Meisner, Massillon
Christopher John Merritt, Rocky River
Shari Lynn Mickey, Lancaster
Randall Lee Miller, Springfield
Traci Ann Moon, Centerville
Deborah Patricia Morris, Cincinnati
Laura Beth Motok, Grove City
Timothy Lee Murray, Columbus
Josias Ndaribamare, Burundi, Africa
Amy Lynn Nelson, Newark
Denise Marie Nelson, Bay Village
Ronald Allen Nerd, Brook Park
Cynthia Marie Newberry, London
Nancy Suzanne Nibert, Delaware
Rosalie Jean Niemeyer, Ottoville
Robert Allen Nose, Cincinnati
Jenni Louise O’Connor,
Willoughby Hills
Angelo Joseph Palladino, Parma
Alexandra Ioannis Papoureas, Cleveland
Gregory Pawlack, Warren
James Paul Peck, Grove City
Todd Keith Pember, Lorain
Donald A. Peterson III, North Canton
Timothy James Phillips, Warren
John Fitzhugh Pilcher, Worthington
Brian Everett Poe, Shaker Heights
Elizabeth Anne Preston, Whitehall
Sherrri Lynn Pryatel, Mentor
Carole Sue Rees, New Carlisle
Penney Lynne Richardson, Aurora
Jeanne Cecilia Riordan, Worthington
H. Edward Roberts, Jr., Columbus
Carlos Ernesto Rodriguez-McGill, Berea
Douglas Newton Rorapaugh, Columbus

Bachelor of Science
John Wilson Allisbrook III, San Pedro, CA
Paul Ann Bihn, Oregon
Kirsten Lizbeth Campbell, Pickerington
Ismael Castillas, Caguas, PR
Jia-Chi Wang Chen, Tae-Yuan, Taiwan, R.O.C.
Lisa J. Cole, Hilliard
Frank Anthony Correale, Canton
John Alfred Donnenwirth, Columbus
 Lynne Marie Dougherty, Newark
Albert Michael Drees, Cincinnati
Jude Anthony Fiorini, Campbell
William Peter Fisanick, Columbus
Eric Warren Greelson, Columbus
Kelly Jean Hamilton, Mansfield
Mark Dennis Ildo, Columbus
Kristin Michelle Jones, Hamilton
Henry Valentino Lagnuzad, Cleveland
Michelle Anne Malcuit, Louisville
Scott Russell Olson, Columbus
Robert Edward Reilly, Bay Village
Athan C. Sarantopoulos, Youngstown
James Webster Saunders, Cleveland
James Michael Vespe, Conneaut
Kirby N. Yagi, Hilo, HI

College of Social and Behavioral Sciences
Dean: Joan Huber

Bachelor of Arts
Fatih Ouzeil Abdulkarim, Aleppo, Syria
Ali Amor Akina, Powell
Steven Vincent Albano, Lyndhurst
Alejandro Palencia Aldana, Brecksville
Lisa Michele Amweg, Ohio City
Bbara Faith Rosenthal, Akron
Michael John Santoro, Cincinnati
Gregory Gene Schlechty, New Madison
Jillia Patrice Schlingman, Ashland
Traci Diane Schonauer, Westerville
Victor Joseph Schroeder, Gahanna
Keith Ronald Sergent, Vandalia
James Harold Seymour, Powell
Michael Evan Shapiro, Marion
Aaron Howard Sigall, Besley
Helen Williams Sloan, Columbus
Susan Dean Smedley, Vandalia
Christopher Edward Charles Smitheman, Cincinnati
Diantha Day Sprouse, Monroe, VA
Victor Brian Stentz, Delaware
Sharon Ann Stiff, Granville
Jack Madeira Subel, Chagrin Falls
James Michael Sudduth, Jr., Kettering
Mark C Sull, Willoughby Hills
Jennifer Carol Thomasson, Chesterland
Terry Alan Tibbals, Columbus
Paul David Tinkenberg, Charlotte, NC
Ann Elizabeth Tobin, Cleveland
Judith Anne-Cox Tomcho, Granville
Jon Mathew Van Buren, East Claridon
Michelle Jean Veriker, Wyoming
Carolyn Yvonne Wade, Russell
Joel Eric Weber, Lisbon
Patricia Marie Werner, Warren
Deane Richard Western, Kalamazoo, MI
Laura Lee Weygandt, Cleveland Heights
Rebecca Ann Whiteside, St. Clairsville
Richard Michael Whitmore, Bainbridge
Lee Mary Wilson, The Plains
D. Barry Winovich, Chagrin Falls
George Howard Wolfington, Jr., Cambridge
Debora Lynn Yurek, Solon

Bachelor of Science
Bradley Michael Agee, Sebring, FL
Laura Annette Amsbary, Gallipolis
Jessica Lynn Anderson, Urbana
Steven Anthony Audi, Brunswick
Kevin J. Butler, Columbus
Marco Chong, Dominican Republic
Matthew Franklin Chronister, Medina
Alexander G. Cogswell, Canton
Robert Leroy Numbers, Cridersville
Bethany Ann Ritter, Columbus
Kristin Michelle Rose, Xenia
Kevin Gradyn Shays, Wellington
Michael James Strickland, Ashland
Dean M. Watzman, Columbus
Vivianne Mary Whalen, Akron
Julie Anne Willis, Columbus
Anne Marie Berring, Canton
Krista Carol Bistline, Milan
William Jasper Black, Marion
John Carl Bomatch, Marion
Thomas Michael Boyd, Gahanna
Julia Ann Brinksmeider, Mt. Sterling
Lynn Michele Bruno, Hopedale
Andrew Patrick Coffey, San Diego, CA
Leslie Margaret Curran, Worthington
Cameron Leigh Davis, Dayton
Susan Marie Demske, Rayland
Arden Louise Dobsia, Columbus
Kelly Marie Donahue, Dublin
Brian Joel Dula, Marysville
Maria-Luisa Arches Durant, Zanesville
Jeffrey Carl Ellington, Mansfield
John Edward Elsasser, Piqua
Susan Worland Arlington, Dublin
Daryn John Fersovich, Edmonton, Alberta, Canada
Janet Marie Foley, Dayton
Andrew William Forcey, Brempton, Ontario, Canada
James Emery Fox, Forest
Michael William Fox, Galion
Marco Anthony Gambatese, Highland Heights
Tina Ann Garbin, Worthington
Julia Lynne Grubb, Athens
Dawn Michelle Hammond, Bainbridge
Stephanie Raé Harper, Zanesville
Viviana Lamanna Heger, Columbus
Craig Randall Jordan, Cleveland
Rebecca Lynn Karam, Akron
Jill Marie Keenan, Medina
Michael Charles Kehlmeier, Columbus
Maureen Ann Kilkenney, Mt. Vernon
David Jon Kirschbaum, Akron
Gia Derede Kourlas, Columbus
Mary Teresa Krez, Upper Arlington
Patricia Anne Kubar, Wadsworth
Michelle Lynn Langhals, Ottoville
Mary Katherine Lemay, Columbus
Kimberly Anne Maly, Berea
Timothy C. Martin, Latham
Amy Marie Mathews, Columbus
Melissa Rochelle Miller, Shaker Heights
Joseph Patrick Mischler, Cincinnati
Mohus Nandi, Columbus
William Clayton Newman, Jr., Dola
Julia Delinda Page, Columbus
Tara Anne Powers, Southbury, CT
Heather Ann Putney, Rochester, NY
Bryn Ann Ray, DeWitt, MI
Lisa Ann Riznikove, Port Clinton
Laurie Anne Robb, Granville
Leigh Kingsbury Roessler, Upper Arlington
Laurence F. Rosenthal, Cincinnati
Jillia Patrice Schlingman, Ashland
Frank Scott III, Warren
Lori Ann Shoemaker, Bath
Lisa Ann Shumay, Brunswick
Michelle Lorene Skomra, Lisbon
Jerrad Cortney Smith, Columbus
Kendra Lisa Smith, Lisbon
Carole Ann Spencer, Zanesville
Kristine Hayes Stultz, Lancaster
Suzan Werle Szturn, Middletown
Martha Ann Weithman, Columbus
D. Scott Wilson, Tiffin
Tricia Ann Wintergerst, North Olmsted
Jenny Elizabeth Worden, Black River
Debora Lynn Worrell, Cadiz

College of Agriculture
Acting Dean: J. Robert Warmbord
Bachelor of Science in Agriculture
Gary Linden Baldwin, Green Springs
Polly Rae Carpenter, Columbia Station
Christopher Peter Ciotta, North Olmsted
William Edward Distad, Columbus
Michael Scott Galbreath, Godfrey
Daniel Lynn Hall, Columbus
Eric Oliver Harding, Lancaster
Gary Lyon Hart, Galloway
George Edgar Hill, Marysville
Kristine Lynn Hooker, Bucyrus
Jerry Scott Hoppers, Greenfield
Pamela Kay Hunt, Amelia
Matthew Alan Lane, Washington Court House
Margaret Louise McMorris, Hemlock
Dean Travis Pees, Delia
Ann Marie Rosati, Akron
Daniel Joseph Schmitmayer, Anna
Mark Darrin Schostizer, Findlay
Todd Dean Stockwell, Galena
Jeffrey Robert Stroupe, Akron
Brian Earl Thomas, Kenton
Richard A. Warner, West Chester
Kimberly Sue Weller, Columbus
Antonios Konstandinos Xenikia, Campbell
Anthony Michael Yecapiraro IV, Wooster

School of Natural Resources
Bachelor of Science in Natural Resources
Kimberly Anne Baker, Nashport
Vanessa Cataldo, Rocky River
Rita Louise Clements, Pioneeer
George Albert Comstock, Chillicothe
Jeffrey Charles Gates, Carrollton
Mark Allen MacLeod, Dayton
Kenneth Ray Pendley, Centerville
Julie Marie Spohn, Wadsworth
Edward Dodge Sturgess, Upper Arlington
Christy Jo Swartz, Marion
Michael Richard Thomas, Bereaville

Agricultural Technical Institute – Wooster
Associate in Applied Science
John Edward Druga, White Oaks, PA
Keith Eric Etchen, Hicksville
Julie Ann Harbert, Wooster
College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Gregory W. Aaron, Atlanta, GA
Cheryl Ann Adams, Westerville
James Anthony Albanese, Eastlake
Tamaraine Jane Albright, Circleville
Tracy Lee Allen, Columbus
Alan Lewis Angabright, Jackson Center
David Michael Barnes, Columbus Station
Dane Thomas Bartley, Waverly
Jon Allan Beacham, Waynesville
Marka Marci Bear, Hudson
Amy Beth Beard, Upper Sandusky
Laurie Sue Beckley, Bellevue
Shawn Maria Behling, Columbus
Steven Berg, University Heights
Dawn Lynne Beutler, Findlay
Kristine Marie Biermann, Shaker Heights
Daron Eugene Binkley, Lima
J. Craig Blaine, Columbus
Lana Joan Bowman, Canton
Timothy Michael Brady, Marion
Mark Prescott Brautl, Westerville
David Nicholas Britt, Columbus
Robert Henry Broehl, Worthington
James Steven Brondor, Lima
Thomasina L. Browder, Cleveland
Jonathan Kenward Brown, Mentor
Julie Lynn Brown, Mentor
Tamborah Sue Burns, Carroll
Jeffrey Robert Burroughs, Toledo
Suzanne Barbara Mercedes Cantarino, Granville
L. Daron Eugene Binkley, Lima
L. J. DeWitt, Columbus
L. C. Browder, Cleveland
L. C. Brown, Mentor
Pamela Kay Goettemoeller, Westlake
A. D. Hillyer, Lorain
J. E. Mobley, Columbus
L. A. Mendicino, Columbus
J. H. Michelson, Madison
J. M. Mobley, Columbus
L. D. Mckinley, Wapakoneta
J. N. Nagy, Richmond Heights
J. R. Morgan, New Philadelphia
R. Todd Morris, Summit Station
G. W. Moore, Norwalk
J. W. Moores, Cincinnati
J. R. Morgan, New Philadelphia
Richard Alan Morgan, Carrollton
Roger Todd Mc Daniels, Columbus
Randall L. McElwee, Hilliard
Keith Allan Mischel, Lyndhurst
Masami Mitsui, Tokyo, Japan
T. Nakasone, Tokyo, Japan
L. Nathan, Cherry Hill, NJ
L. E. Nee, Natick, MA
L. Nussle, Avon Lake

Steven J. Dicker, Columbus
Francis Mathias Dilerschneider, Columbus
Michael Edward Dowrey, Willoughby
Kerrie Lucille Dugan, Columbus
Brian Kevin Dyer, Delaware
Philip Dzanko, Highland Heights
Kathi Ann Earnest, Wadsworth
John Benton Eckels, Granville
David Alan Edging, Sandusky
Brad J. Fein, Marion
Glenn Carl Fernandes, Columbus
Julie Ann Ferrara, Columbus
Glenda Sheila Fieg! , Columbus
Christopher Thomas Fisher, Bryan
Julie Ann Fiesicher, New Albany
Philip C. Fogarty, Springfield
Brian Scott Footer, Dayton
Bonnie Lynn Foster-Spear, Newark
Kelli J. Fox, Columbus
Todd C. Franken, Novi
Karl James Frey, Kiriy
Vincento Ben Frustaci, Canton
Tod Alan Funk, Kettering
Steven B. Gamary, Lakewood
Michael R. Gannon, Brook Park
Timothy L. Garner, Columbus
James C. Gibson, Columbus
Bret Randall Gilmore, Celina
Lisa Lynn Glassco, Chillicothe
Yvonne Lynn Goddard, Chester, WV
Pamela Kay Goettemoeller, Bocks
Douglas Ralph Connell, Reynoldsburg
Greg Robert Grabovac, Upper Arlington
Keven Christopher Gray, Huron
Thomas Griss, Madison
Deborah Lynn Gura, South Euclid
Tom Paul Gutmann, Upper Arlington
Frances Louise Haldar, Mansfield
Elizabeth Anne Hall, Cleveland Heights
Wendy Dawn Hamble, Zanesville
Raymond Vallery Hammam, Williamssport
Tracy Alexandra Hammam,
Marco Island, FL
Kimberly Kay Harden, Thornville
David C. Harris, Rocky River
Elizabeth S. Harte, Upper Arlington
Robert Ross Hartman II, Rocky River
Thomas Alan Hastings, Kettering
Angela Renee Heinisman, Fostoria
Deidre Lynn Henesefiel, Columbus
Steven Wayne Hillyer, Lorain
Anthony Lee Hisong, Canton
Raymond B. Hobin, Columbus
Elizabeth Anne Hollebeck, Columbus
Raymond Michael Horgan, Columbus
Jean Marie Householder, Olmsted Falls
Frederick Paul Houston, Oakmont, PA
Robert Matthew Huey, Grove City
Rita Yuk Ching Hung, Hong Kong
Eric John Huntsman, Leipsic
Linda G. Hurst, Butler, AL
Stephen W. Igo, North Ridgeville
Christine Marie Jackson, Akron
David John Jackson, Galion
Martin Joseph Jakin, Lima
Pamela Pauline Jenkins, Patakala
Christina Lachelle Johnson, Dayton
David Michael Johnson, Canton
Thomas Rodney Jones, Columbus
Jeri Beth Jura, Newton Falls
Steven James Jurcenko, Jefferson
David D. Katz, Cleveland
David Scott Keefer, Westerville
Michael Patrick Keegan, Worthington
Jeffrey Gerald Kerl, Toledo
Amy Sue Kentner, Wapakoneta
Jerome Davis Keyser, Westerville
Susan J. Kiemeyer, Marion
Shelly Lynn Kightlinger, Marion
David M. Kindell, Kenton
Stuart Alan Kinney, Columbus
Louis D. Kilner, Jr., Lopain
Tracy Anne Krauss, Columbus
Shamit Kochhar, Raleigh, NC
Rebecca K. Kohli, Lima
David Scott Konieck, Brecksville
Lisa Ann Kralf, Russells Point
Jennifer Kay Kreuz, Sylvania
Jenny Louise Krueger, Cincinnati
Douglas Allan Kuczynski, Cleveland
Arthur D. Kuhiman, Cincinnati
Iris Jolette Lapley, Beachwood
James Brian Lautzenheiser, Massillon
Jennifer S. LeBoeuf, Dayton
Kismet Kai Leslie, Marion
Daniel Paul Lhota, Canton
Mi S. Lim, Vermilion
Steve Ellis Lintner, Canton
Todd Alan Lynch, Sandusky
Sean Gallagher Madden, Hudson
Michael Anthony Manocchio, Seven Hills
John Marino, Mayfield Village
Mary Beth Mattos, Columbus
Jerry C. Maurer, Columbus
Shari Christine McCaskill, Columbus
Richard Dale McClelland, North Canton
Timothy Alan McCrady, Circleville
Lauren Ray McCullough, Kenton
Philip Todd Mc Daniels, Columbus
Randall L. McElwee, Hilliard
Kurt Allen Mellen, Amherst
James Anthony Mendicino, Columbus
Helen T. Menken, Columbus
Michelle Ann Merrick, Chatham
Charles L. Mertz, Celina
Steven A. Michelos, Madison
Daryl E. Mickley, Louisville
Shaila Alaine Miller, Nashport
Keith Allan Mischel, Lyndhurst
Masami Mitsui, Tokyo, Japan
Joe Edward Mobley, Columbus
Erica Lyn Moore, Norwalk
James Wayne Moores, Cincinnati
Jon R. Morgan, New Philadelphia
Richard Alan Morgan, Carrollton
Roger Todd Morris, Summit Station
Glen L. Mortensen, West Chester
Judith Barbara Nagy, Richmond Heights
Jeffrey Edward Nee, Sidney
Thanh-Mai Thi Nguyen, Lakewood
Dawn Renee Nieves, Gahanna
Nancy Alma Nieter, Lima
Herbert L. Nusse, Avon Lake

282
Lisa Anne Nutkin, Beachwood
Timothy J. O’Haver, Columbus
Kathryn Christine Orkins, Bellefontaine
Michael George Parasson, Akron
Michele Renee Parish, Portsmouth
Kimberly G. Parsons, Beavercreek
Timothy Albert Parsons, Columbus
Mark D. Penz, Minerva
Karen Elizabeth Peters, Youngstown
Deborah Harter Pfahl, Willard
James Thomas Pierce, Coshocton
Brian M. Pinchot, Youngstown
Tanya Dawn Pines, Pataskala
David P. Pirlwat, Toledo
Nancy Kaye Pitts, Newark
Carl Newton Priedeman, Columbus
Mickey Lynn Proxmire, Payne
Mark Allen Pugh, Columbus
John R. Quigley, Columbus
Timothy Alan Rabold, Columbus
Adnan Rahman, Columbus
Virginia Annette Rahrig, Powell
Bryan Curtis Ranft, Worthington
Seema Ravishankar Rao, Secunderabad, India
Lori J. Reed, Independence
Michael John Reed, Toledo
Robert Alan Reeves, Columbus
Charles M. Rezabek, Macedonia
Daniel Alan Rhodes, Columbus
Monique Renee Richardson, New Carlisle
Heather Lynn Ridel, Granville
Estel Tyrone Ried, Urbana
Michael E. Riegelberger, Elyria
Matthew Newman Riehl, Portsmouth
Rebecca Lea Ring, New Orleans, LA
David Scott Roth, Columbus
Christine Marie Ruffing, Brookfield
Anne McNulty Sadeghipour, Rocky River
Andrew Thomas Sanderson, Columbus
Layth Alan Scantland, New Madison
Steven Todd Schindler, Reynoldsburg
William Edmund Schlag, Jr., Kent
Cora Shaw Schnaufer, Columbus
Tom J. Scholl, Columbus
Ian Andrew Schultz, Waynesville
Tracie Susan Schutt, Chagrin Falls
Eric David Seebach, Grove City
Jodi Ellen Fishman, Columbus
Kimberly Diane Fuller, Smithville
Ellen Jean Fundenmark, Conneaut
Susan Lynn Gardner, Worthington
Roderic Alan Gerald, Dallas, TX
Krista Lynn Gerhart, Bucyrus
Lauran Elizabeth Hammill, Columbus
Michael John Hannah, Columbus
Todd Harper Hardesty, Shelby
James Paul Harlan, Ashland
Ralph Gregory Harrington, Monroe, MI
Evelyn K. Hartsburg, Cincinnati
Linda Marie Himes, Westerville
Albertina Dora Hoekel, Orient
Tracy Ann Holstein, Boardman
Amy Michelle Hullhont, Marion
Diane Mary Ingber, Columbus
Gail Lynn Johnson, Worthington
Rebecca Anne Jozwiai, Westerville
Mark Wesley Kelley, Mansfield
Linda Lou Kilmer, Grove City
Kelly Renee Kinder, Columbus
James Edward Kloenoe, Cincinnati
Dawn Marie Kneisel, Lorain
Erin Kathleen Krause, Delaware
Monica Marie Lachman, Columbus
John Damon Lancy, Lakeville
Randall Harrison Leedy, Columbus
Jill Antoinette Lombardo-Lucke, Lima
Maria Ann Lyall, Eastlake
Janice Louise Lyday, Columbus
Karen L. Machak, Mentor
Kelly Elizabeth Martin, Beachwood
Scott Michael McLain, Akron
Thomas Allen Moore, Orrville
Cynthia Ann Morrissey, Lima
Michele Anita Morrison, Vincent
Terri Lynn Neel, Fairborn
Kelly J. O’Brien, Delaware
Amelia Louise Paxson, Thornville
Elizabeth Anne Potts Anderson, Worthington
Mark David Pumphrey, Columbus
John Edward Rath, Montpelier
Mark Kevin Render, Elizabeth, PA
Brett Douglas Robson, Wakeman
Gregory Scott Rodman, Marion
Jocelyn Jane Rog, Medina
Tim Jon Rosch, Columbus
Jane Ellen Ross, Tiffin
Laurel Kathleen Rowat, Perrysville
Michael Anthony Sansone, Lansing
Susan Kay Shoaf, Marion
Gregory Lee Standley, Bellefontaine
Michelle Snader Station, Galion
Michael James Stineman, Lexington
Brooke Anne Teets, Maumee
Daniel Morris Vallette, Columbus
Susan Elaine Williams, Canal Winchester
Milon E. Winovich, Columbus
Michael John Winters, Columbus
Susan Lorraine Wisvari, St. Clairsville
Heidi Sue Yanczura, Martins Ferry

Jennifer Anne Spreitzer, Columbus
David Michael Stacey, East Liverpool
Lauren Sue Stein, Dublin
Kristen Leigh Steinarke, Mentor
Mary E. Stichter, Columbus
Lisa Denise Stone, Springfield
Lisa Elena Stoneburner, Circleville
Nadine Lee Sunderland, Delaware
Wendy Leigh Swonger, Cambridge
Mary Ann J. Tennyson, Columbus
Jeffrey Brian Thomas, Pataskala
Debra M. Thompson, Powell
Ralph K. Thut, Chagrin Falls
Tina Sue Trainor, Loveland
Gerald A. Tout, Proctorville
Page Kelly Townsend, Cheyney Chase, MD
Lisa Ann Trepatter, Worthington
Robert Dwight Underhill, Carroll
Willem Ludolph van der Hoeven, Dayton
Sally Jo Vance, Dayton
Christine S. Vantine, Pickerington
Lynne C. Wagner, Medina
Quentin Douglas Walls, Columbus
Judy Ying-Jen Wang, Taichun, Taiwan, R.O.C.
Noel R. Wardwell, Galena
Bryan D. Webb, Centerburg
Thomas Michael Weber, Willoughby Hills
Jonathan Tobias Weiant, Chagrin Falls
Andrew William Weiss, Youngstown
Brenda Lynn Welsh, New Springfield
Jeffrey Alan Wilson, Westerville
Tamara Lee Winbiger, Shelby
DeLaina J. Wingo, Columbus
Dollianna Marie Winkopp, Gahanna
Michael Paul Wong, Chesterfield, MO
Russell Curtis Wood, Findlay
David Edward Woods, Columbus
Tae Yee (David) Wu, Hong Kong
Shu-Fang Yeh, Taipei, Taiwan, R.O.C.
Winnie Wingyee Yip, Hong Kong
James L. Young, Marion
Steven Jay Zawatsky, Trotwood
Gregory Otto Zietke, Gahanna

Jennifer Sue Arth, Marysville
Laura A. Ashline, Fremont, NY
Jodi Rae Back, Frazeyburg
Robin Nicole Bartholomew, Galloway
Richard Eugene Batts, Jr., Columbus
Anne Marie Bell, Whitehall
Julie Ann Brooks, Columbus Grove
Pamela Jean Burich, Austintown
Jeanette E. Carter, Columbus
Brian C. Casman, Columbus
Curtis Mark Clough, Shelby
Anita Kay Collier, Hilliard
Jennifer Lynn Collins, Marion
Libertad Cruz, Pickerington
Ann Rae Della Flora, Columbus
Susan Lynette Doone, Westerville
Tracy Lynn Dunlap, Scio

Logan Bee Dysart, Columbus
Rita Joan Ervin, Nevada
Stefan Tomas Farrenkopf, Columbus
Julie Marie Fasano, Englewood
Jodi Ellen Fishman, Columbus
Kimberly Diane Fuller, Smithville
Ellen Jean Fundenmark, Conneaut
Susan Lynn Gardner, Worthington
Roderic Alan Gerald, Dallas, TX
Krista Lynn Gerhart, Bucyrus
Lauran Elizabeth Hammill, Columbus
Michael John Hannah, Columbus
Todd Harper Hardesty, Shelby
James Paul Harlan, Ashland
Ralph Gregory Harrington, Monroe, MI
Evelyn K. Hartsburg, Cincinnati
Linda Marie Himes, Westerville
Albertina Dora Hoekel, Orient
Tracy Ann Holstein, Boardman
Amy Michelle Hullhont, Marion
Diane Mary Ingber, Columbus
Gail Lynn Johnson, Worthington
Rebecca Anne Jozwiai, Westerville
Mark Wesley Kelley, Mansfield
Linda Lou Kilmer, Grove City
Kelly Renee Kinder, Columbus
James Edward Kloenoe, Cincinnati
Dawn Marie Kneisel, Lorain
Erin Kathleen Krause, Delaware
Monica Marie Lachman, Columbus
John Damon Lancy, Lakeville
Randall Harrison Leedy, Columbus
Jill Antoinette Lombardo-Lucke, Lima
Maria Ann Lyall, Eastlake
Janice Louise Lyday, Columbus
Karen L. Machak, Mentor
Kelly Elizabeth Martin, Beachwood
Scott Michael McLain, Akron
Thomas Allen Moore, Orrville
Cynthia Ann Morrissey, Lima
Michele Anita Morrison, Vincent
Terri Lynn Neel, Fairborn
Kelly J. O’Brien, Delaware
Amelia Louise Paxson, Thornville
Elizabeth Anne Potts Anderson, Worthington
Mark David Pumphrey, Columbus
John Edward Rath, Montpelier
Mark Kevin Render, Elizabeth, PA
Brett Douglas Robson, Wakeman
Gregory Scott Rodman, Marion
Jocelyn Jane Rog, Medina
Tim Jon Rosch, Columbus
Jane Ellen Ross, Tiffin
Laurel Kathleen Rowat, Perrysville
Michael Anthony Sansone, Lansing
Susan Kay Shoaf, Marion
Gregory Lee Standley, Bellefontaine
Michelle Snader Station, Galion
Michael James Stineman, Lexington
Brooke Anne Teets, Maumee
Daniel Morris Vallette, Columbus
Susan Elaine Williams, Canal Winchester
Milon E. Winovich, Columbus
Michael John Winters, Columbus
Susan Lorraine Wisvari, St. Clairsville
Heidi Sue Yanczura, Martins Ferry

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Jennifer Sue Arth, Marysville
Laura A. Ashline, Fremont, NY
Jodi Rae Back, Frazeyburg
Robin Nicole Bartholomew, Galloway
Richard Eugene Batts, Jr., Columbus
Anne Marie Bell, Whitehall
Julie Ann Brooks, Columbus Grove
Pamela Jean Burich, Austintown
Jeanette E. Carter, Columbus
Brian C. Casman, Columbus
Curtis Mark Clough, Shelby
Anita Kay Collier, Hilliard
Jennifer Lynn Collins, Marion
Libertad Cruz, Pickerington
Ann Rae Della Flora, Columbus
Susan Lynette Doone, Westerville
Tracy Lynn Dunlap, Scio

Logan Bee Dysart, Columbus
Rita Joan Ervin, Nevada
Stefan Tomas Farrenkopf, Columbus
Julie Marie Fasano, Englewood
Jodi Ellen Fishman, Columbus
Kimberly Diane Fuller, Smithville
Ellen Jean Fundenmark, Conneaut
Susan Lynn Gardner, Worthington
Roderic Alan Gerald, Dallas, TX
Krista Lynn Gerhart, Bucyrus
Lauran Elizabeth Hammill, Columbus
Michael John Hannah, Columbus
Todd Harper Hardesty, Shelby
James Paul Harlan, Ashland
Ralph Gregory Harrington, Monroe, MI
Evelyn K. Hartsburg, Cincinnati
Linda Marie Himes, Westerville
Albertina Dora Hoekel, Orient
Tracy Ann Holstein, Boardman
Amy Michelle Hullhont, Marion
Diane Mary Ingber, Columbus
Gail Lynn Johnson, Worthington
Rebecca Anne Jozwiai, Westerville
Mark Wesley Kelley, Mansfield
Linda Lou Kilmer, Grove City
Kelly Renee Kinder, Columbus
James Edward Kloenoe, Cincinnati
Dawn Marie Kneisel, Lorain
Erin Kathleen Krause, Delaware
Monica Marie Lachman, Columbus
John Damon Lancy, Lakeville
Randall Harrison Leedy, Columbus
Jill Antoinette Lombardo-Lucke, Lima
Maria Ann Lyall, Eastlake
Janice Louise Lyday, Columbus
Karen L. Machak, Mentor
Kelly Elizabeth Martin, Beachwood
Scott Michael McLain, Akron
Thomas Allen Moore, Orrville
Cynthia Ann Morrissey, Lima
Michele Anita Morrison, Vincent
Terri Lynn Neel, Fairborn
Kelly J. O’Brien, Delaware
Amelia Louise Paxson, Thornville
Elizabeth Anne Potts Anderson, Worthington
Mark David Pumphrey, Columbus
John Edward Rath, Montpelier
Mark Kevin Render, Elizabeth, PA
Brett Douglas Robson, Wakeman
Gregory Scott Rodman, Marion
Jocelyn Jane Rog, Medina
Tim Jon Rosch, Columbus
Jane Ellen Ross, Tiffin
Laurel Kathleen Rowat, Perrysville
Michael Anthony Sansone, Lansing
Susan Kay Shoaf, Marion
Gregory Lee Standley, Bellefontaine
Michelle Snader Station, Galion
Michael James Stineman, Lexington
Brooke Anne Teets, Maumee
Daniel Morris Vallette, Columbus
Susan Elaine Williams, Canal Winchester
Milon E. Winovich, Columbus
Michael John Winters, Columbus
Susan Lorraine Wisvari, St. Clairsville
Heidi Sue Yanczura, Martins Ferry
Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering
Dean: Donald D. Glower

Bachelor of Science in Aeronautical and Astronautical Engineering
Robert George Ghanie, Beirut, Lebanon
Jeffrey Joseph Rago, Trenton, NJ
Timothy John Rozmajzl, Akron
Jeffrey Joseph Rago, Trenton, NJ
John Nick Skaramagas, Piraeus, Greece
Mark Stephen Talpas, Canonsburg, PA
Matthew Bruce Veness, Clinton, PA

Bachelor of Science in Agricultural Engineering
Glenn Edward Mills, Wooster

Bachelor of Science in Aviation
R. Geoffrey Bing, Dublin
Frederick Eli Dowdell, Grove City
Steven Harley Hayes, Toledo
Bourbon Tom Jung, Sylvania
Johnwei Muljono, Medan, Indonesia
James Christopher Allen, Lima

Bachelor of Science in Chemical Engineering
James Christopher Allen, Lima
Catherine L. Bothe, Homerheads, NY
Michael Anthony Mendicino, Marietta
John Mulpono, Medan, Indonesia
Abeer Maan Osman, Columbus
Stephen Otero, Jr., Albuquerque, NM
Michael John Smith, Perrysburg

Bachelor of Science in Civil Engineering
John Andrew Piccin, Lansing

Bachelor of Science in Computer and Information Science
Paul Mark Bradshaw, Columbus
Yik Oon Chew, Ipoh, Perak
Christopher Donofrio, Dayton
Rodney Shane Ferryman, Columbus
Kusuma Lienandjaja, Bogor, Indonesia
Benjie Hauw Tjhin, Jakarta, Indonesia
Richard Michael Van Schrik, Columbus

Bachelor of Science in Electrical Engineering
Adel Ben Abdennour, Kebili, Tunisia
Robert Joseph Berg, Parma Heights
David Alan Bradley, Columbus, MO
Veera Chupongtitsanun, Bangkok, Thailand
Christopher John DeMattio, Steubenville
Maria Theresa Dennis, Cincinnati
Thomas Everett Foltz, Millersport
Douglas Ray Hooper, Jr., Hilliard
David Clement Kehrle, New Washington
Stuart Irvin Libby, Belgrade, ME
Viet Quoc Mai, Columbus
Eric James Mitchell, Austintown
Jon Blair Schneider, Marietta
James Wiley Sharp, West Palm Beach, FL
Thomas Dean Thompson, Norwalk
Douglas Scott Walls, Powell
Thomas Luke Wible, Dayton
Holly Gay Wirth, Middleburg Heights
Jeffrey Raymond Zeuner, Warren

Bachelor of Science in Engineering Physics
Chad David Bryant, London
Richard Joseph Kasica, Finderne, NJ
Moazzam Khan, Karachi, Pakistan
Francis Albert Kraklick, Massapequa
Park, NY

Bachelor of Science in Industrial and Systems Engineering
Britton David Sweet, Cleveland Heights
Connie Chih-Shun Tseng, West Chester
Michelle Lynn Tucker, Cincinnati
Jill Marie Winn, Parma

Bachelor of Science in Mechanical Engineering
Craig Robert Bergman, Minster
Dina Celeste Birrell, Steubenville
Sheri Lynnette Ekleberry, Columbus
Craig Alan Foster, Batavia
Michael Alan Garnabrant, Johnstown
James David Heft, Lewistown
John Bowman Kerr, Hilliard
Todd Allen Lautzenheiser, Louisville
Timothy Allen Leet, Mentor
Eric Richard Roman, Bay Village
Stuart S. Schlotterbeck, South Charleston
Jeremy George Sines, Leetonia
Douglas Mark Terrill, Bedford

Bachelor of Science in Metallurgical Engineering
David Allen Nagy, Worthington
Brian Edward Placzank, North Olmsted

Bachelor of Science in Surveying
Lois Ann Bruntary, Columbus

Bachelor of Science in Welding Engineering
Paul Michael Perozek, Cleveland
Michael Glenn Topping, Pittsburgh, PA

School of Architecture
Bachelor of Science in Architecture
Terry Steven Bendrick, Dayton
Eric Paul Eberhardt, Akron
William James Harper, Jr., Painesville
Barbara Lee Heskett, Elkins, WV
David Lawrence Krebs, Bay Village
Darryl Glenn Rogers, Beavercreek

Bachelor of Science in Landscape Architecture
Kelly R. Bassett, Dublin
Jose Juan Castejon, Mexico City, Mexico
Lawrence Brittain Elswick, Beverly
Paul Andrew Taylor, Sunbury
Michael Paul Wallther, Avon Lake

College of Human Ecology
Dean: Lena Bailey

Bachelor of Science in Home Economics
Felicia Brynn Alter, Columbus
Lori Ann Babcock, Gahanna
Rebecca Marie Bahn, Ashland
Laura Baynes, Mt. Sterling
Erica Lee Benjamin, Sylvania
Clara Ellen Brown, Columbus
Joann Cautin, Sylvania
Marissa Dawn Christoff, Lima
Robert Allen Fyffe, Columbus
Amy Patricia Gersman, Parkersburg, WV
Monica Lynn Grill, Steubenville
Lisa Sue Hammond, Reynoldsburg

284
College of Medicine
Dean: Manuel Tzagournis, M.D.

Doctor of Medicine
Kurt Thrall Stroevel, Worthington
B.S. (Bowling Green State University): M.A.
Lynn Marie Thomas, Largo, FL
B.S. (University of Notre Dame)
John Michael Weeman, Orrville
B.S.

School of Allied Medical Professions
Bachelor of Science in Allied Health Professions
Grace M. Coleman-Jindra, Middleburg Heights
Diana Adkins Combs, Whitehall
Gayle Ann Jaros, Bedford Heights
Martyn Ann Proctor, Columbus
Tina Marie Romeo, Shininnon, WV
Debra DeAnn Sinclair, Greenwood, WV
Gail Iris Smith, Cincinnati
Clarice Dawn Spise, Nelson Township
Janice L. Sukash, Massillon

Certificate of Nurse Anesthetist
Laura Louise Depas, Wintersville
B.S.Nurs.
Mary Carol Fortunato, Westerville
B.S.Nurs. (Wheeling College)
Daniel Robert Maldovan, Parma
B.S.Nurs.
Richard Alan Pence, Columbus
B.S.Nurs.
Veronica Lynn Zawada, Springfield
B.S.Nurs.

College of Nursing
Dean: Carole A. Anderson
Bachelor of Science in Nursing
Melanie Ann Craig, Loudonville
Kathy Ann Dougherty, Pataskala
Wendy Suzanne Hartman, Englewood
Janet Lee Moore, Cortland
Jennifer Lynn Moore, Shiloh
Jenifer Lynn Moore, Shiloh
Wendy Suzanne Hartman, Englewood
Gail Kathleen Wood, Mansfield

College of Pharmacy
Dean: John M. Cassady
Doctor of Pharmacy
Mark Franklin Bonfiglio, Toledo
John Edward Folstad, Vernon, CT

Bachelor of Science in Pharmacy
Faiguni Kris Bhut, Columbus
Brian Dean Blocker, Barborton
Kimberly Ann Bolan, Amberson
Patricia Raye Buchanan, Canton
Anthony Duane Carr, New Matamoras
Steven Michael Crainich, Dayton
Michael F. Darson, Columbus
Gail Elizabeth Day, Columbus
George Harlan Day, Columbus
David Michael Dzon, Parma
Michael Joseph Gabriel, Salem
Amy Lynn Green, Amanda
Helen Kathleen Hess, Elyria
Heidi Lynn Johnson, West Chester
Jennifer Lynn Kibby, Columbus
Carol Ann Kovach, Sebring
Lisa M. Marmon, Massillon
Valerie Jayne Mille, Cincinnati
Joseph Michael Mink, Copley
Rose-Ann Mondora, Boardman
Carole Sue Novak, Hubbard
Shelly Renee Puthoff, Celina
Jeffrey Louis Reindl, Heath
Nicholas Scott Serb, Richfield
Christopher Paul Smith, Sandusky
Jon Douglas Stachik, Findlay
David Michael Tamulonis, Youngstown
Dorothy Elaine Urbanb, Cuyahoga Falls
Jason Todd Weihl, Marietta
Roy Clement Wilf, Canfield
Douglas Vernon Yeager, Warren

College of Social Work
Dean: Richard E. Boeticher
Bachelor of Science in Social Work
Peter Edwin Fowler, Parma Heights
Joseph Edward Marsano, Crestline

College of Veterinary Medicine
Dean: Ronald A. Wright
Doctor of Veterinary Medicine
Barbara Sherman Simpson, Columbus
A.B. (Saint John’s College);
M.S. (Towson State University);
Ph.D. (University of North Carolina)

285
Graduates with Honors

Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class.

Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with curricular distinction and dedication to high educational goals.

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Political Science

Cynthia Marie Newberry

Summa Cum Laude with Distinction in Mechanical Engineering

Dina Celeste Birrell

Summa Cum Laude with Distinction in Natural Resources Development

Kimberly Anne Baker

Summa Cum Laude with Distinction in Sociology

Kimberly Kay Dill

Summa Cum Laude with Honors in the Liberal Arts

Amy Lynn Betz
Thelma Rosario Butts
Jennie Louise O'Connor

Summa Cum Laude

Alan James Bell
J. Craig Blaine
Susan Marie Brennan
Barbara Ann Byerly
Paula Lee Chamblin
Lisa Lynn Conant
Kathi Ann Earnest

Michael Joseph Ferguson
Kari James Frey
Adam Frix
Ellen Jean Fundermark
Andres Kari Gibbs
Greg Robert Grabovac
Wendy L. Gregory
Frances Louise Halder
Neil Douglas Harder
Gary Lynn Hart
Gail Lynn Johnson
Michael Patrick Keegan
David Clement Kehres
Susan J. Kielmeyer
Masami Mitsui
Jennifer Lynn Moore
David Allen Nagy
Deborah Harter Pfahl
Timothy John Roxmajzl
Nancy Anne Sieker
Stéphane Joseph Spiden
Matthew Bruce Veness
Melanie Ann West
Kimbra Marie Winnestaffer
David Edward Woods

Cum Laude with Distinction and Honors in Pharmacy

Carole Sue Novak

Cum Laude with Distinction in Agricultural Mechanization and Systems

Todd Dean Stockwell

Cum Laude with Distinction in Recreation for Special Populations

Laurie A. Ashline

Cum Laude with Honors in the Liberal Arts

Timothy Lee Murray
Kristin Michelle Rose

Cum Laude with University Honors

Betty Glassmeyer
Yvonne Lynn Goddard

With Distinction in English

Brenna Jeanne Ryan

With Distinction in Mechanical Engineering

Eric Richard Roman

With Honors in the Liberal Arts

Laura Annette Ambury
Christopher David Lima
Charles Edward McGroarty

With University Honors

Steven Berg
Catherine L. Bothe
Christopher John DeMattio
Brad J. Fehn

Cum Laude

Michael Darin Alter
Craig Robert Bergman
Cheryl Lynn Bergsman
Brian Dean Blocker
Michelle Lori Bloom
Robert Lee Bowman
Julie Lynn Brown
Brenda Kay Dalton
Michael F. Danson
Jennifer Ruth Davis
Lynee Marie Dougherty
Kerrie Lucille Dugan
Jude Anthony Fiorini
Janet Marie Foley
Craig Alan Foster
Bonnie Lynn Foster-Spear
Todd C. Frankel
Krista Lynn Gerhart
Laura Kathleen Gigas
Renée Lisette Graxirena
Tom Paul Gutmann
Tamara Ann Hampton
James Paul Harlan
James David Heft
Frederick Paul Houston
Stephen W. Igo
James Edward Kloenne
Karol Ann Kovach
Timothy Allen Leet
Michael Anthony Manocchio
Amy Lynn Nelson
Nancy Suzanne Nibert
Barbara Ann O'Neil
James Paul Peck
Karen Elizabeth Peters
Eric William Rapp
Ingrid Karen Richards
H. Edward Roberts, Jr.
Dolores Frances Shapiro
Todd Alan Sheets
Susan Kay Shoaf
Jennifer Margaret Speicher
Mary E. Stichter
Lisa Elaine Stoneburner
Wendy Leigh Swonger
Paul Frederick Woodrow
Shu-Fang Yeh
Debora Lynn Yurek
Doug Robert Zaper, Jr.
THE OHIO STATE UNIVERSITY

OFFICIAL PROCEEDINGS OF THE

ONE THOUSAND TWO HUNDRED AND FIFTY-FOURTH MEETING

OF THE BOARD OF TRUSTEES

Columbus, Ohio, October 6, 1989

The Board of Trustees met at its regular monthly meeting on Friday, October 6, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**          **          **

Minutes of the last meeting were approved.

**          **          **
October 6, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on October 6, 1989, at 11:05 a.m. He requested the Secretary to call the roll.


Mr. Berry:

First, we have a special report from Dr. John Kramer, Chairman of the University Hospitals Board.

HOSPITALS BOARD REPORT

Dr. Kramer:

Good morning. Having recently completed my first term as Chairman of the Hospitals Board, I felt I should report to you on the current status of the Hospitals and share with you our perceptions of the challenges and opportunities that lie ahead.

Before I proceed with my comments, I would like first to express my gratitude to each of the Hospitals Board members for their dedication, energy, and willingness to give of their time and expertise for the benefit of the Hospitals and the patients we serve. Our acknowledgements would not be complete without special mentions to Dr. Manuel Tzagournis; University Administration; Reed Fraley and Hospitals Administration; Medical Director Dr. Hagop Mekhjian; and Jim Nichols, our University Treasurer who did an outstanding job of shepherding the Hospitals as Interim Executive Director. And we would certainly be remiss if we failed to acknowledge the consistent, strong support we have always enjoyed from the University Board of Trustees.

In preparing for this report, I discovered the following quote taken from President Harold Enarson's opening statement to the Hospitals Board in May of 1980:

"OSU Hospitals face many of the same problems haunting community hospitals everywhere -- rising costs along with rising expectations and rising resistance to cost increases. They face other pressing problems such as governmental regulation, shortages of health professionals, and the thrust toward increased litigation."

Those words are as true today as they were almost ten years ago. Clearly the current environment presents significant challenges to our Hospitals and the entire healthcare industry. But I believe there is also good news: The Ohio State University Hospitals are continuing to provide an excellent environment for teaching new generations of healthcare professionals; our researchers are exploring new frontiers of knowledge in the health sciences; and we are moving ever forward toward recognition as one of the premier university medical centers in the nation. Strong, innovative leadership from the Hospitals and the University have brought us to our current prominence, and must continue as we meet serious challenges and move toward even greater recognition.
The first part of my report concerns the present state of the Hospitals with regard to its mission of teaching, research and patient care. As you know, we are among the largest university teaching hospitals in the nation. In providing clinical experiences for medical, dental, pharmacy, allied health and nursing students, residents and fellows, and in fulfilling our trust to provide high-quality, comprehensive healthcare for the citizens of Ohio, we offer a range of services far beyond that of community hospitals. For example, University Hospitals transplants human hearts and other organs and tissue; we care for mothers with high-risk pregnancies and provide the highest level of intensive care for their babies, some of whom are extremely premature and critically ill; we offer a Level One trauma center with helicopter transport and 24-hour staffing of specialists; we provide comprehensive care for the physically and mentally impaired; we help restore sight with delicate eye surgery; we treat athletic injuries through our sports medicine program; and we have a special center to diagnose and treat sleep disorders. Our physicians use the most advanced lithotripsy for non-surgical removal of gallstones; we are the only facility in central Ohio capable of providing the intensive care needed by critically burned adults; our Gait Laboratory offers non-invasive evaluation of patients' walking patterns to help physicians choose the best treatments; we offer sophisticated diagnosis through computer-assisted Magnetic Resonance Imaging scans; and in the new Davis Center we can provide comprehensive care for our older citizens. Cancer patients and a growing number of AIDS patients find care and compassion at our Hospitals. We provide free healthcare information to the community through the Ask-A-Nurse program. Under the auspices of the Columbus Health Department we provide professional medical services at six neighborhood health centers. And we are reaching out to the community with healthcare services through our MedOhio facilities and mobile mammography van.

On an average day in 1988-89 we were caring for more than 625 in-patients, many of whom were critically ill. Last year we had 29,417 admissions; more than 280,000 Clinic visits; and 40,421 Emergency visits. We performed more than 1.7 million clinical laboratory procedures and filled more than 3 million prescriptions. Our physicians took care of 14,443 surgical patients and delivered 3,570 babies.

Even a procedure as dramatic as heart transplants is becoming almost routine at University Hospitals. To date, our transplant surgeons have implanted 44 donor hearts.

The number of kidney transplants at University Hospitals averages about 150 per year, and actually exceeds the number of appendectomies. We are ranked among the ten largest and most successful kidney transplant centers in the United States, and the largest among the six located in Ohio. I am proud to report our success rate with living, related donors fluctuates between 90 and 95 percent.

Our bone marrow transplant service continues to be recognized as truly outstanding. Since there are different types of leukemia and different risk groups within each type, it is impossible to quote a single percentage to indicate our cure rate. But I can tell you that The Ohio State University Hospitals' bone marrow transplant program has the highest reported survival rates anywhere in the world.
Dr. Kramer: (contd)

Our division of Maternal-Fetal Medicine includes the Prenatal Diagnosis Program, the largest in the state. Three specific early diagnostic procedures performed here are available at only one other facility in the state. And even though it was almost beyond imagination only a few years ago, Ohio State physicians now provide blood transfusions and perform life-saving surgery on babies still in the womb.

A careful analysis of mortality data compiled and released by the federal Health Care Financing Administration (HCFA) reveals that University Hospitals' mortality rate is the lowest among area hospitals and also the lowest reported among our sister Big 10 institutions. At the same time our acuity rate, which measures the severity of illness of our patients, is the highest in the community and among the highest in the nation. Our mortality rate compares favorably among university teaching hospitals nationwide, and is lower than other prestigious hospitals in the country. The Ohio State University Hospitals has been identified by various publications as being 28th lowest and 18th lowest in mortality in the nation. At this point we should note that the hospital boasting the country's lowest mortality rate is an Eye, Ear and Throat Hospital in New York with no emergency patients, no cardiac patients, no transplant or intensive care units. We believe these federally developed data give impressive evidence that the care provided at The Ohio State University Hospitals is as good as, or better than, any other hospital anywhere.

We were the first in Ohio to implant the Jarvik-7 artificial heart which keeps a patient alive until a suitable donor heart can be found. We are one of only two centers in the nation with on-site training for the Jarvik-7 surgical team. We are also one of few medical centers approved to use external ventricular assist devices which do not replace the patient's heart, but take over the ailing heart's pumping action and thereby give it a chance to recover.

Strong emphasis has been placed on advancement of research. Last year the College of Medicine was awarded a total of $26.7 million in research grants, an increase of 18.1 percent from the previous year. The College of Medicine, the School of Allied Medical Professions, the Hospitals, and our Department of Pediatrics located at Children's Hospital, together attracted almost $36 million in research funding. Included in that total is $1.7 million from the National Institutes of Health to study whether diet and blood pressure control can help stop or slow chronic kidney disease. We are the only medical center in Ohio and one of 15 in the nation taking part in the study, which is the largest clinical kidney study ever undertaken by the National Institute of Health.

University Hospitals is the only place in the nation performing a dramatic type of surgical technique to help fight colon cancer that has spread to the liver. Preliminary results are very promising. We are also one of five medical centers in the nation participating in clinical trials for an experimental eye operation for cataract patients.

Now let us turn to the realities of operating a major tertiary care hospital in the current environment. In the early 1980's, in an attempt to curb expenditures and reward efficiency, federal and state governments initiated a prospective payment system of reimbursement for Medicare and Medicaid patients. DRG's (diagnosis related groups) are used to determine the amount of reimbursement hospitals receive for providing care to patients with specific diagnoses. Additionally, third-party payers began to specify certain procedures that now would be reimbursed only
October 6, 1989 meeting, Board of Trustees

HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

on an outpatient basis. The ever-increasing shift toward outpatient care means that fewer patients are being hospitalized -- and those who are admitted are the most seriously ill. Since fewer patients are being admitted, we are now seeing intense competition among hospitals who depend on patient volume for their very existence.

To put all this in perspective, we need to keep several things in mind. First, University Hospitals has a disproportionately high number of Medicare and Medicaid patients (a combined total of 43 percent of the patient mix), which makes us more vulnerable to constant erosion in governmental reimbursement rates. For example, for care we provided last year to Medicare and Medicaid patients, our total reimbursement will fall approximately $17.5 million short of charges -- and this balance is not recoverable from any source. Second, hospitals are often excluded as providers for managed-care networks unless they are prepared to discount their usual charges by as much as 20 percent, which is the discount we provide to the University Health Plan. Third, an added threat to teaching hospitals is the fact that federal support for medical education has declined dramatically and the downward spiral is expected to continue. Fourth, while other hospitals can choose not to offer a program they know will lose money, University Hospitals must continue to offer the broadest range of patient care -- both to honor our obligation to the citizens of Ohio and to ensure that our students will be exposed to all types of illnesses and patients as part of their clinical education. Finally, as an academic institution our traditional inclination has been to disdain competing in the marketplace, choosing instead to allow our expertise to speak for itself. This attitude is changing and we are now implementing a marketing program for the medical center.

Judge Robert Duncan, in his 1981 report to the Trustees, referred to "the national nursing shortage." The shortage is now acute. Although 80 percent of the nation's two million registered nurses are working (as compared with 54 percent of women in the total workforce) the demand for nurses continues to rise. Early this year we appointed a Nursing Task Force to address the problem and recommend possible strategies for developing, recruiting and retaining nursing professionals. Some of those recommendations are reflected in the University's contract agreement with the Ohio Nurses' Association; others are in the process of being implemented by Mr. Fraley. These strategies include some innovations which, if successful, will serve as a model for other hospitals in this nation.

Mr. Dean Jeffers reported to you in 1983 that the Hospitals' Revenue and Expense budget was approximately $165 million. This year's budget is just over $230 million, even though the number of Hospitals employees has been reduced and operating costs have been cut as much as possible without compromising quality. The Hospitals Board is firmly committed to operating the Hospitals on a break-even or better budget, with the understanding that very close budgeting will produce a bottom line that is positive in some years and negative in others. Our intent is to generate enough money to meet our obligations, maintain our facilities -- and still hold charges low enough to remain competitive. We must preserve this delicate balance, especially in light of recent market share reports that indicate our relative share of patients has declined over the past four calendar years while certain of our competitors, using aggressive marketing programs, have made impressive gains in both actual numbers and market share. Although the Franklin County population is
Dr. Kramer: (contd)

Projected to grow by five percent, the number of hospital admissions will decline because of changing trends in healthcare delivery.

Two years ago the Hospitals ended the fiscal year with a net loss of $1.6 million; this past year, although we anticipated a $1.9 million loss, the actual loss was $1.1 million. A considerable part of those losses was due to unexpectedly high costs associated with the University’s Early Retirement program and the utilization of agency nurses. Again this year we have approved a budget we anticipate will fall just short of break-even. Mr. Fraley and his staff have initiated an aggressive plan to reduce Accounts Receivable and strategies to improve investment returns, in addition to ongoing cost-containment programs. We are confident that our Strategic Plan, coupled with strong leadership and careful management, will carry us through this adversity.

What lies ahead? In such a complex environment, assumptions can be perilous at best. However, let me share a few insights we feel will shape medical education and healthcare delivery during the next decade.

Approximately one of every six hospital admissions across the nation is to a teaching hospital. In fact, teaching hospitals provide the bulk of this country’s uncompensated medical care. Thirty-seven million Americans have no healthcare insurance. Despite aggressive educational campaigns, millions continue to jeopardize their health through smoking, drug abuse, alcoholism and obesity. The elderly are the fastest-growing segment of our population. In the future we will need more disease-prevention programs and more emphasis on dealing with long-term and chronic illnesses.

A major concern, of course, is the soaring cost of healthcare services. Healthcare accounts for one out of every eight dollars in the Gross National Product -- and is growing at a rate 50 percent faster than other sectors of the economy. Escalating expenses for healthcare have triggered heated disputes between labor and management. Insurance premiums in the private sector are rising by 10-20 percent each year, and the elderly are increasingly pressed to afford the added costs of needed care. Various initiatives by government and private industry to curb runaway costs have been unsuccessful, and increasing frustration has led to renewed calls for change.

Some medical executives urge that healthcare providers compete on the basis of quality, and undoubtedly we will see increasing demands for documentation of appropriate levels of quality and cost containment. Quality has many facets; it includes access, timeliness, efficient use of technology and accepted principles of medical science, sensitivity, confidentiality, optimal outcome, patient satisfaction, and documentation to allow continuity of care and peer evaluation. What about the appropriateness of specific services? Is it more ethical to preserve life at all costs for a few weeks or months, or should we spend our resources where they produce the most benefit? According to the Boston Globe, 85 percent of all healthcare expense for the average American occurs in the final two years of life.
October 6, 1989 meeting, Board of Trustees

HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

University teaching hospitals are the source of our nation's skilled physicians, nurses and allied professions; sophisticated patient care; and breathtaking technological developments. In today's environment we are facing enormous challenges to our unique mission of teaching, research and patient care. We are mindful of the need to maintain the highest levels of quality while remaining competitive and continuing to provide the wide scope of absolutely essential services. To ensure these broad responsibilities are accomplished, we have charged Hospitals Administration with implementing and constantly updating the Strategic Plan in cooperation with the College of Medicine. Current initiatives in centralized billing and changes in Ambulatory Surgery are expected to contribute to improved patient convenience and satisfaction. During the months and years to come, we will propose additional initiatives that become necessary to protect and enhance our position. Some of those most likely will take the form of an overnight lodging facility and a medical research building.

As you can see, the issues are complex and the stakes are high. There is an old adage that says character is not made, but only revealed, by adversity. As healthcare leaders to whom the public looks for solutions, we and other academic medical centers must be in the forefront in analyzing the current situation and charting the course with appropriate action. We believe University Hospitals are choosing effective strategies -- sometimes innovative and even revolutionary -- that will allow us not only to fulfill our commitment to the people of Ohio, but also help lead the way in resolving healthcare problems at the national level. With your continued support, we will succeed. Thank you.

Mr. Teaford:

Mr. Chairman, one other thing that I think we should point out is that in addition to the extraordinary amount of service that we get from the Hospitals Board, I want to particularly point out that Dr. Kramer who lives 100 miles from Columbus, comes once a week to the Hospitals to work at his job as Chairman. His service, I think, is invaluable to the Hospitals and to the University. I also want to point out one other thing he said. He said, "that the patients who come to Ohio State University Hospitals are sicker than any other patients who come to any hospital in this area. And we have the lowest death rate of any of those hospitals." To me, the bottom line, when you are going to the hospital, is that. And I think that is the absolute proof, beyond any doubt, that this is the best hospital in the area.

Dr. Kramer:

Thank you. I think the message is clear, if you are sick, you want to come to OSU Hospitals.

President Jennings:

John and Joel, I would like to second that. And John, on behalf of all of us, thank you. John has done an extraordinarily good job. He is extremely dedicated and his leadership has been very important to our Hospitals. Joel, I thank you for pointing that out.
President Jennings: (contd)

I think another thing that should be pointed out, that is often forgotten, when Dr. Kramer was talking about the finances, that this is a hospital run with, for practical purposes, no state appropriations. Whereas most of the other teaching hospitals that John was referring to are, hospitals that receive some sort of state appropriation, some larger, some smaller. But this is a university hospital that we are asking, not only to do the research mission, teaching mission and the care mission, without a state appropriation. So the fact that budgets are, for practical purposes, balanced is also an accomplishment that very few other institutions can claim without the assistance of their respective states. John, we appreciate that and all of the staff has done a marvelous job on that, too, in financing this place without the help of the State.

Mr. Berry:

Thank you, Dr. Kramer. This Board, again, appreciates all the work that you and the other Board members do on behalf of University Hospitals. I think, Joel, what you were trying to say about when you are sick, go there -- everybody wants to go to heaven, but nobody wants to die to get there. So, go to the University Hospitals.

--0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

Mr. Chairman, I would like to report on the Research Foundation Committee at this time. The Research Foundation grants and contracts for the month of August 1989, are shown in the Board agenda book. There are 169 awards listed which provide a gross income of $14.1 million.

Funding for the first two months of the fiscal year is 23% ahead of last fiscal year at this time. Funding increases are noted for all sponsor sectors.

Some highlights of the awards are:

$721,000 from the Midwest Universities Consortium for International Activities for an overseas training operation with the government of Indonesia.

$184,000 from the Department of Education for the University's Upward Bound Program.

$126,000 from the National Science Foundation for a study on arm and leg coordination of industrial robots in the Department of Electrical Engineering.

$92,000 from the Department of Education for a Drug Prevention Program at Ohio State.
October 6, 1989 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

Thank you, that concludes my report. Dr. Thomas L. Sweeney, Acting Vice President for Research and Graduate Studies, is available to answer any specific questions you may have.

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its Committees met on Thursday, September 28.

Medical Director Dr. Hagop Mekhjian reported on various issues under discussion by the medical staff. At the request of the Board, he reviewed the criteria and procedures used in the credentialing of medical staff applicants. Criteria are very strict and initial appointments are provisional. Annual reappointments include mandatory updating of information as well as a review of clinical performance during the previous year. We received a Quality Assurance report from the Department of Internal Medicine, and I might say that we get these reports monthly from the various departments and they, again, reflect what you were told before of the very high quality of care that the Hospitals provide. Mr. Fraley also updated us on the status of implementation activities as recommended by the Nursing Task Force. The most hopeful thing that he reported is that, indeed, we have increased the number of nurses on staff. I have very little doubt that the Task Force recommendations will continue to increase that. We have decided to find out what nurses want, and it is not money that they want. I think that that will yield great results.

The Administrative/Operations Committee reviewed the Hospitals' financial performance during the month of August, and received a progress report on reduction of accounts receivable. And, I am happy to say that they are coming along well. We were briefed on the status of various construction and renovation projects, as well. Dick Jackson pointed out to me yesterday that in a couple more months we will actually be in the circumstance where there will not be any external construction going on in the Hospitals area for the first time in the history of the world, I suspect. We learned that final construction work is being done, and equipment is beginning to arrive for the Cancer Hospital. And as you know, it is scheduled to open the first of the year. The Committee considered and endorsed a proposal for the management by The Ohio State University of the J. Leonard Camera rehabilitation facility. Which, as you all undoubtedly know, is located across Rt. 315 from the Medical facility. It is actually a spectacular looking facility -- which is more spectacular on the inside than out. And, it is largely unused to this point. One of the things that we will get is over 7,000 feet of space that will be available for the University's use. As I understand it we intend to put Sports Medicine and Cardiac Rehabilitation in there. It will be a marvelous facility for those programs. It is easy to reach, there is easy parking, and the facility, for complicated things, is almost unbelievable.
October 6, 1989 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

President Jennings:

Except it is in Illinois colors.

Mr. Teaford:

Yes. Well, I don't know about that yellow. Mr. Fraley reported that a review of market quotes indicates that purchase of commercial excess malpractice insurance would not be cost-effective for the Hospitals at this time, although it has gone down a little.

The full Board then met and endorsed the recommended medical staff appointments as well as the proposed management contract for the J. Leonard Camera Center. We heard a report from Dr. Michael Para, a faculty member nationally recognized for his expertise in AIDS treatment and research, addressed the Board about study protocols and research developments. Although the drug AZT has proven effective in slowing progression of the disease, researchers have not yet been able to find a cure. Lastly, we viewed a videotape of television news coverage featuring the Hospitals, and received a report on medical center development activities.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as of September 15, 1989, as presented by Mr. Nichols. The value of the endowment portfolio was reported as $299.6 million, and Mr. Nichols advised us that today the value of the Endowment has exceeded $300 million.

Yesterday afternoon, members of the Investments Committee, along with other Board members, met with the equity advisors to review their performance for the year. We will do the reviews of the fixed income advisors on the afternoon of November 2, prior to our next Board meeting.

The Committee heard a report of an audit of Campaign Contributions conducted by the University Controller's staff and the results were positive.

That concludes my report, Mr. Chairman.

(See Appendix XVI for complete text of The Ohio State University Endowment Summary, September 15, 1989, page 345.)

--0--
Ms. Casto:

This morning we heard from Dr. Jim Bishop on the Young Scholars Program, which is a youth program for minority or low income children; they can be black, Hispanic, Appalachian or native Americans. The thing that makes this program so attractive is that it does guarantee admission to Ohio State University with financial aid.

The students are nominated for this program in sixth grade. The parents and students have to adhere to several guidelines that allow them to be eligible for the program and stay in the program throughout their junior high school and high school years. We currently have 600 students at a cost of $1,700 per student. Full implementation of the program will be in 1994-95, at a cost of $4 million, but we will have 2,280 students. I think that the most important thing is that we continue to support this program; I would hate to let these children down. They are really enthusiastic about the program. They have a 90% attendance rate, and that means that only 10% have dropped out, so obviously it is really attractive to them.

Did anybody want to add anything? A lot of Trustees have been involved in this.

Mr. Teaford:

I think we should note that Ms. Paige is, indeed, one of the counselors for the program -- has been for two years -- and has made a great contribution.

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

**DISTINGUISHED SERVICE AWARDS**

Resolution No. 90-32

Synopsis: The Academic Affairs Committee recommended the approval for two individuals to receive Distinguished Service Awards.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended two individuals for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipients:

James E. Chapman

Since his 1954 summa cum laude graduation from Ohio State's College of Law, James E. Chapman has accumulated a truly distinguished record of volunteer service to The Ohio State University. He graduated cum laude from Ohio State in 1953 with a bachelor's degree in business administration. He has continued a strong and supportive relationship with his college, providing astute counsel to the dean, faculty and staff on the future direction of the College of Law.
DISTINGUISHED SERVICE AWARDS (contd)

James E. Chapman (contd)

A volunteer's support for an institution may be measured by his or her contributions of wisdom, work and wealth. Mr. Chapman has generously shared all three with his alma mater. As chair of The Ohio State University's Cleveland Campaign, Mr. Chapman has taken the lead in enhancing the image of and the support for the University in the Cleveland area. In addition, his assistance and direction as Ohio State's new regional offices took shape in Cleveland and elsewhere have helped to advance the University's position as a leader in higher education throughout the country.

His value as a "goodwill ambassador" for his alma mater is beyond measure. He has helped to establish a warm place for Ohio State in the heart of Cleveland, effectively cementing common bonds of interest between Clevelanders and Ohio State.

As a volunteer leader at the national level, Mr. Chapman has brought his thoughtful guidance and spirit to the many deliberations of the National Campaign Steering Committee over the past few years.

His leadership and counsel have been invaluable to the University not only through the Campaign, but through The Presidents Club as a member of the Executive Committee and the Ohio State Alumni Club of Cleveland as well. In all of his activities on behalf of the University, Mr. Chapman has shown an enthusiastic interest and a selfless dedication.

Among all of Ohio State's many valued volunteers, Mr. Chapman exemplifies the unmistakable spirit of one who believes deeply in his cause, and feels it deserving of generous amounts of his time and effort. His level of commitment is truly rare. As a true partisan of Ohio State, James E. Chapman exemplifies its ideals of leadership, scholarship, and service, and its standards of excellence.

Richard W. Trott

Richard Trott began his study of architecture at The Ohio State University in the Autumn of 1955 and graduated in the Spring of 1961 summa cum laude. He compiled an outstanding academic record receiving virtually every honor awarded by the School. He received the Faculty Prize in Architecture in 1957, 1958, 1959, and 1960. In addition, he won the John Noble Richards Scholarship and the Joseph N. Bradford Memorial Scholarship. In his senior year he graduated first in his class and was awarded the AIA Medal, the Certificate of Merit from the Architects Society of Ohio, and the Produce Council Award. Finally, as a student he received honors in three national design competitions, and these awards not only recognized his abilities but enhanced the reputation of the School.

During his undergraduate years, in addition to compiling a distinguished academic record, Richard Trott was also a campus leader. He served as an officer of Ohio State's, and on various other student organizations including the Senior Class Committee, the Campus Life Conference, the Engineer's Council, the Student Leader Endowment Fund, the Student Chapter of the AIA, and was the Chairman of the Leadership Training Day. He was a member of Sphinx and Texnikoi. His activities while at The Ohio State University were an extraordinary blend of personal substantive growth and contributions to campus life.
DISTINGUISHED SERVICE AWARDS (contd)

Richard W. Trott (contd)

The commitment to professional excellence and service to the University which Richard Trott established as an undergraduate has characterized his life to the present. He has generously contributed of his resources, time, and talent to the Presidents Club, the Symposium on a Quality Learning Environment, the Committee for Tomorrow of the College of Engineering, the Presidents Club Executive Committee of '88, and the Alumni Association. In 1985, as a member of the Committee for the 50th Anniversary Reunion of the Ohio State's he designed the outdoor performance center in Browning Amphitheatre. Richard Trott received a Distinguished Alumnus Award in 1984 and was a Special Honoree at the 300th Commencement ceremonies in 1987. Although he has truly been a dedicated alumnus throughout his professional life, it has been through his contributions to the School of Architecture and his design of the Wexner Center that he has made his most significant and lasting contributions to the University.

Richard Trott has made many important design contributions to the quality of the campus environment. However, none to date are comparable with the enormous effort and distinguished leadership that he invested in the design and construction of the Wexner Center. In many ways the building symbolizes his sincere love for and loyalty to his alma mater. The design excellence which the Center has achieved was driven by Richard Trott's desire to present the University with a landmark building.

Following Mr. Trott's graduation from The Ohio State University, he obtained a Master of Science degree from the University of Minnesota in 1963. Two years later he established his own architectural firm. Since that time he has become nationally recognized for his contributions to the field of architectural design and was named a Fellow of the American Institute of Architects in 1982, and was honored in 1986 with the Governors Award for Contribution in Fine Arts. He has participated in design symposiums at the University of Rome, the American Academy in Rome, and Harvard University; and has spoken at several international meetings of the International Council of Shopping Centers and at the COGEM International Retailing and Services symposiums. Mr. Trott has written articles which have appeared in a number of national professional and trade journals and he has served on both regional and national design juries. Under his design direction, his firm has won over eighty design awards, and was recognized in 1985, as the first ever Gold Medal firm in the State of Ohio. Among the firm's recognitions is the prestigious Progressive Architecture Award for the Wexner Center for the Visual Arts; the first Recchie Award for his firms' office building; the National Laboratory of the Year Award for the Sherex Chemical Company Headquarters; and twenty-six awards from the American Institute of Architects. Clients of the firm include many national corporations and developers as well as international organizations from Europe and Australia.

Richard Trott has made extraordinary contributions toward raising the standards of excellence in architectural design both in Ohio and the nation while simultaneously advancing the ethical norms of his profession. In the latter instance, examples of his pro-bono activities in the community have included service on the Citizens Advisory Committee of the MidOhio Regional Planning Commission, the Upper Arlington Planning Commission, the 1983 Committee for the Greening of Columbus, the Land Use Committee of the Columbus Chamber of Commerce, and participation and membership in numerous other professional and business organizations. Richard Trott has
DISTINGUISHED SERVICE AWARDS (contd)

Richard W. Trott (contd)

always discharged his service responsibilities with distinction and in accordance with the highest ideals of the public interest.

Richard Trott’s career is characterized by unselfish devotion to his University, profession, and community while always demanding personal and professional excellence. The Ohio State University is sincerely grateful for his dedication and proudly commends the contributions he has made toward creating an enduring quality environment for living and learning.

and

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and the awards are in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Awards be approved for awarding as designated above.

President Jennings:

These are two people who have provided enormous service to Ohio State University, Jim Chapman, an attorney from Cleveland, and Dick Trott, an architect here in Columbus. We are very pleased to recommend these to you and I submit these names for your consideration. We would hope to be able to award these in December.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS

Resolution No. 90-33

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the August 23, 1989 meeting of the Board, including the following Appointments, Reappointment, Appointment of Chairperson of Department and Director of Center, Reappointment of Chairperson of Department, Leaves of Absence Without Salary, Leave of Absence Without Salary--Change in Dates, Professional Improvement Leave, Professional Improvement Leave--Change in Dates, and Emeritus Titles as detailed in the University Budget be approved.

Appointments

Name: GARY L. FLOYD
Title: Acting Dean
College: Biological Sciences
Effective: 10/1/89 through 6/30/90
Salary: $79,200.00
Present Position: Associate Dean, College of Biological Sciences and Professor, Department of Botany
PERSONNEL ACTIONS (contd)

Appointments (contd)

Name: ASTRID E. MERGET
Title: Acting Dean
College: Business
Effective: 10/1/89 through 6/30/90
Salary: $110,040.00
Present Position: Associate Dean, College of Business and Director, School of Public Policy & Management

Reappointment

Name: CHARLES F. HERMANN
Title: Acting Vice Provost
Office: International Affairs
Effective: 7/1/89 through 6/30/90
Salary: $96,480.00
Present Position: Acting Vice Provost for International Affairs and Professor, Department of Political Science

Appointment of Chairperson of Department and Director of Center

July 1, 1989 through June 30, 1990

Mershon Center
Photography and Cinema

Charles F. Hermann
J. Ronald Green*

Reappointment of Chairperson of Department

January 1, 1990 through June 30, 1993

Veterinary Physiology and Pharmacology

Young C. Lin

*Acting Chairperson

Leaves of Absence Without Salary

EIICHI BANNAI, Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at Kyushu University in Fukuoka, Japan.

MARC L. RAPHAEL, Professor, Department of History, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept the Gumenick Professor of Jewish Studies at William and Mary College.

LUCY D. VENABLE, Professor, Department of Dance, effective Autumn Quarter 1989, for personal reasons.

RAYMOND MONTEMAYOR, Associate Professor, Department of Psychology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a Visiting Associate Professorship at the Institute of Child Development, University of Minnesota.
Leaves of Absence Without Salary (contd)

MICHAEL D. ORLANSKY, Associate Professor, Department of Educational Services and Research, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, for personal reasons.

JULIA F. ANDREWS, Assistant Professor, Department of History of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to complete research articles and a book.

WADE T. DYKE, Assistant Professor, School of Public Policy and Management, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a White House Fellowship.

MARTIN HEESACKER, Assistant Professor, Department of Psychology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at the University of Florida.

ROSEMARY REISS, Assistant Professor, Department of Obstetrics and Gynecology, effective October 1, 1989, through July 31, 1990, for personal reasons.

JAMES C. TURNER, Assistant Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at Hampton University.

SUSAN P. VAN PELT, Assistant Professor, Department of Dance, effective Winter Quarter and Spring Quarter 1990, for personal reasons.

RAKESH V. VOHRA, Assistant Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1989, to accept a visiting professorship at the Wharton School of Business, University of Pennsylvania.

Leave of Absence Without Salary--Change in Dates

SHIBLEY Z. TELHAMI, Assistant Professor, Department of Political Science, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Winter Quarter, Spring Quarter and Autumn Quarter 1990.

Professional Improvement Leave

MARLIN L. LANGUIS, Professor, Department of Educational Theory and Practice, effective Spring Quarter and Summer Quarter 1990.

Professional Improvement Leave--Change in Dates

S. M. TARIO RIZVI, Associate Professor, Department of Mathematics (Lima Campus), change leave from Winter Quarter, Spring Quarter, and Autumn Quarter 1990, to Spring Quarter, Autumn Quarter 1990, and Winter Quarter 1991.

Emeritus Titles

ROBERT J. LYNN, College of Law, with the title Professor Emeritus, effective October 1, 1989.

PEGGY K. HULL, Department of Life Span Process, with the title Instructor Emeritus, effective October 1, 1989.
October 6, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 90-34

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Alexander Frazier

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 23, 1989, of Alexander Frazier, Professor Emeritus in the Department of Educational Theory & Practice.

A native of Arizona, Professor Frazier completed his B.A. (1932) and his M.A. (1933) in Education at the University of Arizona. Following study at the University of Mexico, University of Chicago, and Stanford University, he earned his Ed.D. from Teachers College, Columbia University in 1951. He taught in the Phoenix, Arizona, High School and served as Curriculum Director in the Los Angeles Schools, the Phoenix Schools, and the Houston Schools. Prior to coming to The Ohio State University, he was Assistant Superintendent of the Phoenix Public Schools.

Professor Frazier was employed as Director of the University Laboratory School and Professor of Elementary Education in 1958. During his twenty-year tenure in the College of Education, he played a leadership role in transforming the Laboratory School into a Center of School Experimentation. An excellent administrator and teacher, he was a prolific author. He wrote more than 150 journal articles and authored or edited eight books. Always an advocate for the poor and minority populations, one of his most noteworthy publications was Educating Children of the Poor, published by the Association for Supervision and Curriculum Development in 1968. His concern for these populations moved the entire College to examine admission and retention programs for minority graduate students. Professor Frazier was President of the Association for Supervision and Curriculum Development and held leadership positions in the National Council of Teachers of English and the National Laboratory School Administrators Association.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Woodford W. Zimmerman

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 20, 1988, of Woodford W. Zimmerman, Associate Dean and Associate Professor Emeritus in the School of Music (Lima Campus).
October 6, 1989 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Woodford W. Zimmerman (contd)

Professor Zimmerman was born May 15, 1933, in Lexington, Kentucky. He graduated from Wilbur Wright High School in Dayton, Ohio, and then matriculated at The Ohio State University where he was awarded a Bachelor of Science in Music Education degree in 1955, a Master of Arts degree in 1962, and a Doctor of Philosophy degree in 1969.

Professor Zimmerman was a music instructor and Supervisor of Music in the Marysville, Ohio, schools from 1957 to 1961 and music teacher in the Bexley, Ohio, schools from 1961 to 1964. He then came to Ohio State and served as a research assistant during the 1964-1965 academic year and a Graduate Teaching Associate during the 1965-1966 year. He joined the faculty at The Ohio State University in Lima as an Instructor of Music in 1966, and was appointed Associate Dean at Lima in 1970, and remained there until his retirement in 1986. He then assumed the position as Director of Undergraduate Studies at Florida Atlantic University.

Woody was most active professionally and musically during his time at Lima. He was an active member of the Music Educators National Conference, the Ohio Music Education Association, Phi Delta Kappa, and Pi Kappa Lambda. He organized the music program upon his arrival at Lima and was most proud of the breadth and scope of the music program, which still bears his mark. His contribution to the cultural activities in Lima were significant, serving as a member of the Lima Symphony Orchestra Board of Trustees and as Director of the Lima Symphony Orchestra Chorus. He will be remembered for his many years of loyal and dedicated service to the University and the community in Lima.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Zimmerman its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

At this time I would like to call on Steve Diebert for the Interprofessional Council report.

Mr. Steve Diebert:

Good morning. For the past few months I have had my vice president fill in for me because I have been in those great University Hospitals that we were talking about earlier. I think that they have a great third-year program where we pay a couple of thousand dollars a quarter and they work us 100 hours a week. That works pretty good.

President Jennings:

That's not enough, Steve -- work that is.
October 6, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Diebert:

My report to you will be pretty brief this morning, since our first meeting will just be next week. This is due to a lot of the professional schools starting late this year. Last year was a building year for us, a year in which we put in place the facilities in which to establish continuity. As of July of this year, the office was working great. We had a computer in place and a thorough filing system going quite well. However, within the past couple of months a water pipe burst above the ceiling of the office, came straight down on the computer and it was not found until water was leaking into the bookstore below our office. The repairs are underway and we hope to be operating in full tilt by the end of the month.

We also expect to receive our allocation monies within the next few weeks, although we have some concern about a 5 percent cap they put on funding where an organization cannot raise a request for funding above 5 percent. Like I had mentioned, we are a building organization and we are trying to play catch up ball and then move on ahead. The 5 percent will be fine after this year, but we have a lot of things that we still have to do and we need more than a 5 percent increase. We are trying to create the proper working environment, one that we can effectively project to the professional students. Holding us to that 5 percent would be penalizing us for the lack of work displayed by previous IPC administrations. I have been informed that it has been recommended that this 5 percent cap be waived by the Allocations Committee, but it still has to pass the head of CSA.

Luke, Dave, and myself have currently been working on the system to select next year's Student Trustee member. This looks like it is going to be on schedule and there shouldn't be any problems there.

The IPC is planning a conference on terminal illness to be held November 11, in the Union. The conference places many professional disciplines into groups to discuss the ethics involved in dealing with the terminally ill.

Concerning loan disbursement, I would like to let the Board of Trustees know that it took me seventeen minutes to get my loan and pay my fees. As I told President Jennings earlier, it is like when you watch the weather and the weatherman tells you to expect a blizzard and you end up getting a pleasant day. Thank you.

Mr. Barone:

Thank you, Steve. I would like to call Luke Evans, Council of Graduate Students.

Mr. Luke Evans:

Good morning. Autumn Quarter is here again and we are off to a flying start. We have already had our Graduate Student Orientation. We had 400 new entering graduate students attend. They had the pleasure of hearing words of wisdom from Professor George Martin, who is an awardee of Distinguished Research here at this University, and from Professor Ann Soulter who is an awardee of Distinguished Teaching, as well as having the benefit of a panel discussion of graduate students who are soon to graduate with Ph.D.'s. We advised them on basic survival techniques that are essential, right from the beginning of one's program -- from choosing the right academic advisor, to parking safely on football Saturday's without getting your car towed. We think it was quite successful and we are pleased that many of the students that participated thought so as well.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

This coming winter we are planning a grant proposal writing workshop to help give graduate students who are in the middle of their programs helpful hints on how to successfully write grant proposals. This is coming at a time when we will gain access to a Stanford University data base that yields funding opportunities for graduate students. This was brought to our attention by Tom Sweeney, Office of Research and Graduate Studies. We are very pleased about this opportunity to give graduate students an opportunity to fund their research. Some of the examples that the data base brought forward -- on a couple of cases, graduate students would present their ideas and would receive anywhere from 70 to 100 opportunities to get their research funded in their particular area. We think this will be fine addition to graduate education.

In the Spring Quarter we are already gearing up for our Graduate Research Forum. This is is the granddaddy of our events. This gives graduate students at Ohio State an opportunity to present the results of their research conclusions in a conference-like setting and earn opportunities to win cash awards. We usually require the assistance of approximately 100 faculty members at this institution and at many institutions across the country to be judges in this event. We have had nothing but praises from the participants, both faculty and students, about how this can contribute to increasing the quality of graduate education. Graduate students seem to receive a great boost of confidence when they have the opportunity to present their research in this type of setting. Many universities across the nation are modeling similar events based upon our program.

Some of the issues that we are currently focusing on deal with the quality of student mentoring. We are concerned about the length of time it takes for a person to earn a Ph.D. That is increasing more and more each year. When we consider the cost of getting a graduate education, both in terms of actual cost and opportunity cost, it is imperative that we look closely at the quality of student mentoring and the length of graduate programs. I know for many people the opportunity cost is in the six figures. It takes 6-7 years to earn a Ph.D., that can climb high.

We are also focusing a lot on health care issues. We are concerned that graduate students are paying $89.00 a quarter for health insurance. But a single graduate student with a dependent has to pay $278.00 per quarter. We have heard news already that one student in that situation is dropping out of graduate school because of that. We are trying to contact that student so that we can help that student find alternative means of financing. Those are not the stories we like to hear. We are very concerned about health insurance, especially for the people who are single and have dependents, because these people may need graduate education the most.

We are also working actively with minority groups around campus. We are adding the President of the Hispanic Graduate and Professional Student Caucus to our executive committee so that we have a direct pipeline into the issues that are facing Hispanic Americans. We are also working with Asian Americans and Native Americans to develop their particular graduate/professional student organizations, so that they can be members of our executive board and we are not oblivious to their concerns. We are even going beyond that -- the members of our organization are attending their meetings on an active basis and becoming members, so that we have communication in both directions. We don't think it is enough just to invite people to our committees, we want to become actively involved in their
October 6, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

organizations so that we can be fully apprised of their concerns.

That is basically it. I am now off to Notre Dame. I will be attending a NAGS regional conference. It is the Midwest Regional Conference and on this occasion I will have a chance to meet with graduate and professional leaders from the entire Midwest and exchange views on what we are doing, our successes and our problems. It should be interesting. It's too bad it isn't a football weekend up there.

Mr. Barone:

Thank you, Luke. At this time, I would like to call on David Straub, Undergraduate Student Government.

Mr. David Straub:

Members of the Board, President Jennings, well not good afternoon quite yet, good morning. First in my report, I would like to introduce our advisor -- last time I didn't, I wasn't sure if he wanted to be introduced or not being as part of this organization -- Dr. Asher, please stand. He is our new advisor. Our previous advisor left with another obligation outside of the University.

In beginning my report, the student government over the summer has been working on many things. Our student newsletter just came out and it will be distributed to all of the students, it is called USG Today. It is like a little play on that national paper. I think we want to be bigger than they are, possibly.

I want to talk about a few controversial things and then talk about some of the programs that we are doing. One of the concerns that I had -- and I almost brought a telephone into this meeting today to set it on the desk and leave it off the hook. The students have been calling our office very frequently -- and it has been a concern of mine -- regarding basketball tickets. They all want to go to the games, but we don't have enough tickets to provide for them. I understand the situation the University's in, and I will just look for support in this matter, hopefully next year, in dealing with this issue.

One other issue that we are concerned with is student representation on all University committees. We feel that our views are important and that there are some committees that undergraduate students in particular, are not represented on, and we ask that they be represented in that capacity.

Now on to the things that we have been doing. We have been working with some minority students right now on a retention program. We are starting a high-risk student study table that will be in effect on Monday for minority students, in particular, to increase their retention at this University. I am really looking forward to this program and hope that it will have an impact at the University in the retention area.

We are working with Representative Mike Stinziano with a campus safety program to increase the crime watch program that USG currently undertakes to go outside of the campus area into all the vicinities where students live off campus. Right now that right now is in the preliminary stages and are working out the details.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

As Steve said, we have been working together with the different student governments on the appointment of the new Student Trustee and we are just in the preliminary stages of that also.

Ms. Davis:

You needn’t rush that process.

Mr. Straub:

O.K., we won’t rush that process. Another program that we are really looking forward to is the campus environment program that we have initiated. We are concerned with environmental issues inside the classroom, as well as outside as I have expressed in earlier reports to the Board. Our student working on this is Matt Krause. He has been working diligently with the different state government offices in helping with a clean-up program on our campus. I know that our goal is to make this campus one of the cleanest in the country, not only inside the classroom, but outside as well and the entire campus community.

And then one other bright note regarding one of our programs, and then I will end my report, is our park program, USG Park Program. In my first report I discussed the problem of parking on this campus and that we would be dealing with this issue. Well, we have come together with a proposal and a plan to help resolve some of the parking problems on this campus. We worked with the MidOhio Regional Planning Commission, the MetroRide Division, and the Office of Traffic and Parking at the University, to provide a car pool program for students. This program is being implemented. There are a couple different facets of the program and I will explain them just briefly. A student can apply through MetroRides with an application to be matched up with a student at this University. A student can also go to the Office of Traffic and Parking and receive a car pool decal with a hanging tag that they can car pool with. Or the student can do both, be matched up and also receive the car pool tag. So there are different facets of the program that we believe students will utilize and we are really hopeful for this program. The Office of Commuter Affairs is excited about the program, as well as Traffic and Parking, as well as our Office.

Those are just briefly a few things that we are doing and you will all be receiving a copy of our newsletter to peruse, if you will, during this quarter. Thank you for your time, and this concludes my report.

Mr. Barone:

Thank you. Any questions?

Ms. Paige:

I have a question. I was just wondering about the high-risk students' study table for minority students that you mentioned. I know myself, being a minority, I would be kind of hesitant to sit in the area that was labelled a high-risk student study group. I was wondering if you really have thought about this --
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub:

The whole program was worked through a student who has been very politically active in the minority issues. His name is Rick Iverson with the Just Us Group. Rick and I both went to a racism conference, which I didn't address, a few weekends ago in Cincinnati, sponsored by the Board of Regents. It was very successful and we spent the weekend together discussing this issue. He expressed his concern that last year he attempted this program and it was not successful. The issue of high risk is defined by the University, as I understand it, and I don't know the specifics. But as I understand it, for minority students, in particular, we are concerned with retention. That is why it is called what it is. We only have limited space also. We would like to have all-student study tables, but we can only limit it to 80 - 100 students right now until we get additional spacing.

Ms. Davis:

How are you making the students aware of these?

Mr. Straub:

Well right now it is brand new. I just talked to scheduling at 10:45 a.m. today to confirm that we had the room. As soon as I get back to the office, I will talk to Rick and we will disseminate this information to those students via phone, via flyers.

Ms. Paige:

Seeing that the program is only limited to 80 students, how are you going to choose which students will attend?

Mr. Straub:

Well, it is not going to be selection at first. If there is a need for greater capacity I plan on soliciting the scheduling office again for additional space at the University. It is the first program of this kind and I think it is important for USG to take the initiative on something to make steps in the right direction in the retention area.

Ms. Paige:

Are you saying that only minority students --

Mr. Straub:

No, no, that is why we qualify it as high risk -- students with learning disabilities or any students -- I am particularly concerned with the minority students, as a personal thing, but it is open to all students.

Mr. Barone:

Any further questions? That completes my report, Mr. Chairman.

--0--
AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

The Agricultural Affairs Committee met this morning and heard a report on the Farm Science Review which was held in the month of September. We found out that it is bigger and better than ever, having the largest three-day total number of paid admissions and the greatest exhibitors' square footage -- 43 acres. That is a lot of exhibits.

We also heard a progress report on the Piketon Research Extension Center. Bids are to be let on or around January 1, 1990. Hopefully, the construction will be completed within the year, and it will offer some new opportunities for the rural area in the southeastern and western Ohio. That constituency is most anxious that we get on with it and get started. So we heard a report on that, and they will continue to keep us updated. That completes my report.

(See Appendix XVII for complete text of the 1989 Farm Science Review, page 357.)
(See Appendix XVIII for complete text of the Progress Report at the Piketon Research and Extension Center, page 359.)

--0--

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

The Fiscal Affairs Committee heard an extremely favorable status report on the University Campaign for the past fiscal year, as well as progress through August 31, of this year. Gift Receipts for this fiscal year just ended totalled $68.3 million. Those receipts combined with campaign expectancies and previous year's receipts bring the Campaign total to $388.2 million, which is 110% of the Campaign goal. During July and August of 1989, the Campaign received an additional $12.7 million in contributions, bringing the total as of August 31 to just over $401 million or 115% of the $350 million goal in the fourth year of this five year Campaign.

(See Appendix XIX for charts of The Ohio State University Campaign, page 363.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 90-35

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for August 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund during the month of August 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Background

SUMMARY FOR AUGUST 1989

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>169</td>
<td>$14,099,696.92</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>66</td>
<td>$1,015,894.00</td>
</tr>
<tr>
<td>Total</td>
<td>235</td>
<td>$15,115,590.92</td>
</tr>
<tr>
<td>The Ohio State University Development Fund</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Establishment of Designated Professorship

The American Electric Power Professorship of Power Systems Engineering (Professorship) $20,000.00 Annually

Establishment of Named Funds

The Sandoz Pharmaceuticals Corporation Endowment Fund for Clinical Research (Support clinical research) $200,000.00

The Sam Segall Memorial Library Fund (Purchase library books and periodicals for the Veterinary College Library) $181,407.00

The Sam Segall Memorial Scholarship Fund (Scholarships - College of Veterinary Medicine) $181,407.00

The Virginia I. Zirkle Scholarship Fund (Scholarships - College of Human Ecology or University College) $15,000.00

Change in Name and Description of Named Fund

From: The John J. Gerlach Professorship Fund
To: The John J. Gerlach Chair Fund

313
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

Background (contd)

SUMMARY FOR AUGUST 1989 (contd)

Change in Description of Named Funds

The Sphinx Endowment Fund
Robert M. Zollinger Lectureship Fund
Federal Research Contracts/Grants


$935,105.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Spinal Cord Injury Research Center, Department of Surgery (W. E. Hunt) and Department of Physiology (B. T. Stokes), 1 September 1989 through 31 August 1990. (Project 763358 - Continuation)

$648,769.00 - Department of Health and Human Services, Health Resources and Services Administration, Rockville, Maryland, East Central Regional AIDS Education and Training Center, Department of Family Medicine (L. L. Gabel), 1 September 1989 through 31 August 1990. (Project 766345 - Continuation)

$349,992.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and C. Gonzalez-Vega), 1 June 1989 through 30 June 1990. (Project 763301 - Continuation)

$344,403.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Investigation of Problem-Solving and Man-Machine Systems, Department of Pathology (J. W. Smith and M. S. Kennedy), Department of Industrial and Systems Engineering (P. J. Smith), and Department of Computer and Information Science (B. Chandrasekaran), 1 July 1989 through 30 June 1990. (Project 766119 - Continuation)

$316,181.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Transmural Transport in Blood Vessels, Department of Pathology and Department of Internal Medicine (D. L. Fry), 1 September 1989 through 31 August 1990. (Project 763184 - Continuation)

$276,912.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Biogenesis of Mitochondria in Neurospora, Department of Molecular Genetics (A. M. Lambowitz), 1 September 1989 through 31 August 1990. (Project 765538 - Continuation)

$224,526.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Restraint Stress: Suppression of la Expression, Department of Microbiology (B. S. Zwilling), 1 August 1989 through 31 July 1990. (Project 767728 - New)

$197,085.00 - Department of Energy, Argonne, Illinois, An Accelerator Neutron Source for Boron Neutron Capture Therapy (BNCT), Department of Mechanical Engineering (T. E. Blue, R. Christensen, and K. Vafai) and Department of Radiology (R. Gahbauer), 15 July 1989 through 14 July 1990. (Project 767614 - New)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$183,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Immune Response Mechanisms in Luteolysis, Department of Dairy Science and Department of Dairy Science OARDC (J. L. Pate), 1 September 1989 through 31 August 1992. (Project 767761 - New)

$179,099.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Thymidylate Synthetase Gene Structure and Expression, Department of Biochemistry and Department of Molecular Genetics (L. F. Johnson), 1 September 1989 through 31 August 1990. (Project 762903 - Continuation)

$166,958.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Ion Transport by Heart Mitochondria, Department of Physiological Chemistry (G. P. Brierley), 1 September 1989 through 31 August 1990. (Project 760026 - Continuation)

$166,958.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee, M. B. Bragg, and J. N. Scott), 1 January 1990 through 31 December 1990. (Project 765240 - Continuation)

$145,030.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Brain Development in Schizophrenics and Their Siblings, Department of Psychiatry (S. C. Olson), 1 September 1989 through 31 August 1990. (Project 767013 - Continuation)

$137,688.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, DNA Damage in Oncogene Activation, Department of Radiology (A. A. Wani, S. M. D’Ambrosio, and R. M. Snapka), 1 September 1989 through 31 August 1990. (Project 766418 - Continuation)

$133,880.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Stochastic Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Department of Chemistry and Department of Biochemistry (A. G. Marshall), 1 September 1989 through 31 August 1990. (Project 763504 - Continuation)

$130,503.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, The Value of Glycolipids for Classifying Astrocytomas, Department of Pathology (A. J. Yates), 1 September 1989 through 31 August 1990. (Project 767769 - New)

$126,000.00 - National Science Foundation, Washington, D.C., Arm-Leg Coordination of Multilimbed Industrial Robots, Department of Electrical Engineering (Y. F. Zheng), 16 August 1989 through 31 August 1990. (Project 767792 - New)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$125,844.00 - Department of Health and Human Services, Food and Drug Administration, Rockville, Maryland, Reproductive Toxicology Models for Testing Gossypol Metabolites and Covalently-Bound Residues, Department of Veterinary Physiology and Pharmacology (Y. C. Lin) and College of Pharmacy (R. W. Brueggemeier), 1 July 1989 through 30 June 1990. (Project 767113 - Continuation)

$124,960.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cardiac Myocytes and the Cellular Response to Ischemia, Department of Physiological Chemistry (G. P. Brierley), 30 September 1989 through 29 September 1990. (Project 765733 - Continuation)

$124,696.00 - Department of Health and Human Services, National Library of Medicine, Bethesda, Maryland, Computer Based Pathology Consultation Submodule, Department of Pathology (J. W. Smith) and Department of Computer and Information Science (B. Chandrasekaran), 1 September 1989 through 31 August 1990. (Project 764606 - Continuation)

$120,373.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Development of Cerebellar Circuits, Department of Anatomy (J. S. King), 1 September 1989 through 31 August 1990. (Project 760045 - Continuation)

$120,000.00 - National Science Foundation, Washington, D.C., Collaborative Research on Pollen Tube Growth Rates and Male Fitness in Hibiscus moscheutos, Department of Botany (A. A. Snow), 15 October 1989 through 30 September 1992. (Project 767510 - New)

$107,568.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Teenage Decision-Making, Schooling, and Fertility, Department of Economics (D. O. Parsons), 1 August 1989 through 31 July 1990. (Project 767000 - Continuation)

$100,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Protein and Epitope-Specific Immune Responses to Bovine Coronavirus in Calves, Food Animal Health Research Program - OARDC (L. J. Saif), 1 September 1989 through 31 August 1992. (Project 767537 - New)

$100,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Bacterial Genes Coding for Plant Ribulose Biphosphate Carboxylase, Department of Microbiology (F. R. Tabita), 1 September 1989 through 31 August 1991. (Project 767701 - New)

$99,953.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Peptide Regulation of the HPA Axis in Major Depression, Department of Psychiatry (R. S. Jaeckle), 1 September 1989 through 31 August 1990. (Project 767045 - Continuation)

$99,340.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Ex Vivo Xenoantibody Adsorption, Department of Surgery (M. L. Henry), 1 July 1989 through 30 June 1990. (Project 767662 - New)
October 6, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Source Description</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>$97,109.00</td>
<td>Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Signal Transduction in Gastrointestinal Neurons, Department of Physiology (J. D. Wood) and Department of Pharmacology (R. H. Fertel), 1 September 1989 through 31 August 1990. (Project 768006 - Continuation)</td>
<td>1 September 1989</td>
<td>31 August 1990</td>
<td>Project 768006</td>
</tr>
<tr>
<td>$92,834.00</td>
<td>Department of Agriculture, Science and Education, Washington, D.C., Drug Prevention Program at OSU, Department of Preventive Medicine (J. R. Hostetler), 1 September 1989 through 30 September 1991. (Project 767785 - New)</td>
<td>1 September 1989</td>
<td>30 September 1991</td>
<td>Project 767785</td>
</tr>
<tr>
<td>$90,550.00</td>
<td>Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Somatostatin in Spinal Sensory Circuits, Department of Anatomy (R. H. Ho), 1 July 1989 through 30 June 1990. (Project 766184 - Continuation)</td>
<td>1 July 1989</td>
<td>30 June 1990</td>
<td>Project 766184</td>
</tr>
<tr>
<td>$87,442.00</td>
<td>Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Transfusion Medicine Academic Award, Department of Pathology (M. S. Kennedy), 1 August 1989 through 31 July 1990. (Project 764698 - Continuation)</td>
<td>1 August 1989</td>
<td>31 July 1990</td>
<td>Project 764698</td>
</tr>
<tr>
<td>$87,057.00</td>
<td>Department of Education, Office of Special Education and Rehabilitation Services, Chicago, Illinois, Training Grant in Physical Medicine and Rehabilitation, Department of Physical Medicine (E. W. Johnson), 1 October 1989 through 30 September 1990. (Project 767118 - Continuation)</td>
<td>1 October 1989</td>
<td>30 September 1990</td>
<td>Project 767118</td>
</tr>
<tr>
<td>$87,000.00</td>
<td>National Science Foundation, Washington, D.C., Physiological Substrates and Products of Carbon Monoxide Dehydrogenase from Methanosarcina barkeri, Department of Microbiology (J. A. Krzycki), 15 July 1989 through 30 June 1990. (Project 767791 - New)</td>
<td>15 July 1989</td>
<td>30 June 1990</td>
<td>Project 767791</td>
</tr>
<tr>
<td>$86,400.00</td>
<td>Department of Health and Human Services, National Institute of Aging, Bethesda, Maryland, Geriatric Leadership Academic Award, Department of Internal Medicine (R. Whisler), 1 September 1989 through 31 August 1990. (Project 766318 - Continuation)</td>
<td>1 September 1989</td>
<td>31 August 1990</td>
<td>Project 766318</td>
</tr>
<tr>
<td>$80,000.00</td>
<td>National Science Foundation, Washington, D.C., Role of the Host Gene in Root Nodule Development, Biotechnology Program (D. P. S. Verma), 1 August 1989 through 31 July 1990. (Project 767707 - New)</td>
<td>1 August 1989</td>
<td>31 July 1990</td>
<td>Project 767707</td>
</tr>
</tbody>
</table>
Federal Research Contracts/Grants (contd)

$79,608.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neuronal Development, Plasticity, and Regeneration, Department of Anatomy (G. F. Martin, Jr.), 10 July 1989 through 30 June 1990. (Project 767734 - New)

$77,516.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Individual Faculty Scholar Award in Schizophrenia, Department of Psychiatry (J. A. Coffman), 1 September 1989 through 31 August 1990. (Project 768004 - Continuation)

$71,798.00 - National Science Foundation, Washington, D.C., Summer Mathematics Program, Department of Mathematics (A. E. Ross, G. Edgar, and D. Ray-Chaudhuri), 1 July 1990 through 30 June 1991. (Project 767333 - Continuation)

$67,183.00 - National Science Foundation, Washington, D.C., Ship-to-Shore Seismic Refraction Investigation of the Lithospheric Structure of the Transantarctic Mountain Front, Byrd Polar Research Center and Department of Geology and Mineralogy (R. R. B. Von Frese), 1 July 1989 through 31 December 1990. (Project 766709 - Continuation)

$65,000.00 - National Science Foundation, Washington, D.C., Formation of Hybrid Natural Products by Interspecies Cloning of Streptomyces, Department of Microbiology (W. R. Strohl), 15 September 1989 through 31 August 1990. (Project 767709 - Continuation)

$63,084.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Nicotine, Neuroregulators, and Dysphoric States Among Smokers, Department of Life Span Process (M. E. Wewers), 1 August 1989 through 31 July 1990. (Project 766969 - Continuation)

$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (G. P. Lalyatis), 1 March 1990 through 28 February 1991. (Project 766988 - Continuation)

$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (R. J. Perry), 1 February 1990 through 31 January 1991. (Project 768901 - Continuation)

$59,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Electrical Engineering (Y. F. Zheng), 16 July 1989 through 31 January 1990. (Project 767624 - New)

$50,778.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Signature Reduction Technology, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 15 September 1989 through 14 September 1990. (Project 767754 - New)

$50,000.00 - National Science Foundation, Washington, D.C., Predation, Herbivory, and Disturbance: Structuring Forces in the Littoral Zone Community of North Temperate Lakes, Department of Zoology (R. A. Stein), 1 July 1989 through 30 June 1990. (Project 767694 - New)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$49,986.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, NASA Lewis Research Center Compact Range Design, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and I. J. Gupta), 20 August 1989 through 19 August 1990. (Project 767771 New)

$48,095.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 31 August 1989 through 30 November 1989. (Project 767472 - Continuation)

$45,201.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Ethology of Blood/Sugar Antagonism in Mosquitoes, Department of Entomology (W. A. Foster), 1 September 1989 through 31 August 1990. (Project 766238 - Continuation)


$40,000.00 - Department of Education, Washington, D.C., Expanding African Studies at The Ohio State University, Department of Black Studies (I. J. Mowoe), 1 October 1989 through 30 September 1990. (Project 767698 - New)

$36,218.00 - Environmental Protection Agency, Chicago, Illinois, Effect of No-Till and Fall Plowing on Pesticide Movement in Runoff and Till Drainage, Department of Agronomy - OARDC and Department of Agronomy (T. L. Logan) and Cooperative Extension State Operations and Department of Agronomy - OARDC (D. J. Eckert), 1 May 1989 through 30 April 1990. (Project 766424 - Continuation)


$34,129.00 - National Science Foundation, Washington, D.C., Studies of Internal Layering and Basal Conditions in Ice Sheets Using Low Frequency Ice Radar, Byrd Polar Research Center and Department of Geology and Mineralogy (I. M. Whillans), 1 December 1989 through 30 November 1990. (Project 765261 - Continuation)

October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$27,200.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, Initiative for the Analysis and Selection of Opacity Project Data, Department of Astronomy (A. K. Pradhan), 1 August 1989 through 31 December 1989. (Project 767788 - New)

$22,977.00 - Department of the Navy, Navy Material Command, China Lake, California, Antenna Edge Treatment, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 July 1989 through 31 December 1989. (Project 767718 - New)

$21,000.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Involvement of a tRNA Synthetase in RNA Splicing, Department of Molecular Genetics (A. M. Lambowitz), 1 September 1989 through 31 August 1990. (Project 767697 - New)

$20,860.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, MARC Predoctoral Fellowship, Department of Microbiology and Immunology and Oral Biology (J. F. Sheridan), 1 September 1989 through 31 August 1990. (Project 766363 - Continuation)

$20,000.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Small Instrumentation Program -- The Ohio State University, Medicine Administration (D. G. Cornwell), 1 September 1989 through 31 August 1990. (Project 767765 - New)

$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., Nonlinear Analysis of Boundary Layers with Streamwise Varying Properties, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 August 1989 through 31 July 1990. (Project 766897 - Continuation)

$17,990.00 - National Science Foundation, Washington, D.C., Simulation of Fluid Flow and Solidification in Die Casting Processes, Department of Industrial and Systems Engineering (T. Altan and Y. T. Im), 1 September 1989 through 31 August 1992. (Project 767738 - New)

$14,480.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Lubrication of Triboelements, Department of Mechanical Engineering (B. J. Hamrock), 1 July 1989 through 30 September 1990. (Project 766311 - Continuation)

$12,859.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Spinal Cord Injury Research Center, Department of Physiological Chemistry (L. A. Horrocks) and Department of Physiology (B. T. Stokes), 1 September 1988 through 31 August 1989. (Project 763358 - Continuation)

$12,000.00 - National Science Foundation, Washington, D.C., Acoustic Communication and Mating Behavior of Prokelisia Planthoppers, Department of Entomology - OARDC (R. E. Treece), 1 September 1989 through 31 August 1990. (Project 767747 - New)

$10,000.00 - Department of Agriculture, Forest Service, Fort Collins, Colorado, Airborne Video Analysis and Interpretation Software Development, Center for Mapping (J. D. Bossler), 1 August 1989 through 30 October 1990. (Project 767775 - New)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$10,000.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Production and Characterization of Glycosylated Chicken Growth Hormone, Department of Poultry Science - OARDC (D. N. Foster), 1 June 1989 through 1 June 1991. (Project 767720 - New)

$8,662.00 - Environmental Protection Agency, Chicago, Illinois, Acid Deposition Monitoring Program for Western Lake Erie, Center for Lake Erie Area Research (J. M. Reutter), 1 July 1989 through 30 June 1990. (Project 767085 - Continuation)

$8,490.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Heavy Duty Brake Research, Department of Statistics (P. K. Goel), 1 August 1989 through 31 July 1990. (Project 767787 - New)

$7,024.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Small Instrumentation Program, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 July 1989 through 30 June 1990. (Project 767732 - New)


$5,000.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Small Instrumentation Program, College of Optometry (R. M. Hill), 1 August 1989 through 31 July 1990. (Project 767708 - New)

$5,000.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Small Instrumentation Program, Oral Biology (J. Travers), 1 September 1989 through 31 August 1990. (Project 767727 - New)

$4,007.00 - National Science Foundation, Washington, D.C., Scientists and Statesmen: President Dwight D. Eisenhower's Science Advisers and National Security Policy, Department of History (M. J. Hogan and R. Damms), 1 September 1989 through 31 August 1990. (Project 767783 - New)

$3,750.00 - National Science Foundation, Washington, D.C., REU Supplement to "Models of the Location of Hub Facilities," Department of Geography (M. E. O'Kelly), 1 March 1989 through 28 February 1990. (Project 767343 - Continuation)

$2,768.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, RNA Splicing in Neurospora Mitochondria, Department of Molecular Genetics and Department of Biochemistry (A. M. Lambowitz), 1 April 1989 through 31 March 1990. (Project 765596 - Continuation)

$2,535.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Polyquinane and Related Natural Products, Department of Chemistry (L. A. Paquette), 1 July 1989 through 30 June 1990. (Project 762298 - Continuation)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Department and Institution</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,421.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Molecular Biology of Organellar Translocation, Department of Molecular Genetics (B. R. Oakley) and Department of Microbiology (D. R. Galloway), 1 April 1989 through 31 March 1990. (Project 763502 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$2,029.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1989 through 30 June 1990. (Project 765529 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$1,916.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Genetics of Myogenesis: Structure and Function, Department of Molecular Genetics (S. Falkenthal), 1 June 1989 through 31 May 1990. (Project 763993 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$1,411.00</td>
<td>Department of Health and Human Services, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, Biochemical Studies of Arsenite Oxidase and Sulfite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 July 1989 through 30 June 1990. (Project 766908 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$1,137.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Conformational and Electrostatic Effects in Plastocyanin, Department of Biochemistry (E. L. Gross), 1 April 1989 through 31 March 1990. (Project 765991 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$434.00</td>
<td>Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 July 1989 through 31 July 1989. (Project 767704 - Continuation)</td>
<td></td>
</tr>
</tbody>
</table>

Personnel Services - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 766340 - Continuation) (Approximate Dollar Value - $59,000)

TOTAL - FEDERAL AWARDS $10,265,454.00

State of Ohio Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Department and Institution</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>$210,000.00</td>
<td>State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Engineering Experiment Station and Academic Affairs Administration (R. E. Bailey), 1 July 1989 through 30 June 1990. (Project 767751 - Continuation)</td>
<td></td>
</tr>
<tr>
<td>$150,000.00</td>
<td>State of Ohio, Department of Development, Columbus, Ohio, Labor-Management Partnership Program (A Regional Center for the Advancement of Labor-Management Cooperation), Academic Faculty of Management and Human Resources (D. B. Patton and H. R. Bobbitt, Jr.), 1 July 1989 through 30 June 1990. (Project 767608 - Continuation)</td>
<td></td>
</tr>
</tbody>
</table>
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$67,746.00 - State of Ohio, Department of Education, Columbus, Ohio, Entrepreneurship Education in the Modernization of Vocational Education in Ohio, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767713 - New)

$50,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Development of Mascarpone, Italian Style Cream Cheese, for the United States Market, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (D. J. Dzurec, Jr.), 1 August 1989 through 31 July 1991. (Project 767711 - New)

$34,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, The Mental Health Needs of Persons Who Are Deaf, College of Social Work (R. E. Boettcher), 1 July 1989 through 30 June 1990. (Project 767729 - New)

$33,708.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Ventures in Business Ownership -- Year III, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767712 - Continuation)

$30,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Forensic Psychiatry Traineeship -- Level II, Department of Psychology (H. L. Mirels), 1 July 1989 through 30 June 1990. (Project 767741 - New)

$30,000.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Into the 90's: New Works for New Spaces, Wexner Center for the Visual Arts (R. Stearns), 1 September 1989 through 1 October 1990. (Project 767782 - New)

$19,745.00 - State of Ohio, Department of Health, Columbus, Ohio, Hemophilia/AIDS/HIV Infection Prevention, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 767778 - New)

$15,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Biotechnology Program, Biotechnology Program (P. E. Kolattukudy), 12 May 1989 through 30 December 1989. (Project 767745 - New)

$10,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Diabetes in Pregnancy -- Education Program, Department of Obstetrics and Gynecology (M. B. Landon), 18 May 1989 through 31 August 1989. (Project 767731 - New)

$7,358.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Festival of Cartoon Art, University Libraries (L. S. Caswell), 1 July 1989 through 31 December 1989. (Project 767648 - New)

$5,550.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Grandparents Living Theatre, Department of Theatre (J. Reilly), 1 July 1989 through 30 June 1990. (Project - 767755 New)

$5,109.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, 1989 International Computer Music Conference, School of Music (D. Butler and T. Wells), 1 July 1989 through 30 November 1989. (Project 767767 - New)

324
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$5,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Successful Single Parenting, Cooperative Extension Field Operations (R. Culbertson), 1 July 1989 through 30 June 1990. (Project 767589 - New)


$2,801.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Mershon Performing Arts Season, Mershon Auditorium (R. Stearns), 28 September 1989 through 20 June 1990. (Project 767781 - New)

$2,263.00 - State of Ohio, Department of Education, Columbus, Ohio, Upward Bound Summer Food Service Program, Office of Minority Affairs (L. K. Jackson), 12 June 1989 through 31 October 1989. (Project 767750 - New)

$847.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, A Program of International Visiting Artists for 1990, Department of Art (T. W. Slaughter), 1 January 1990 through 30 June 1990. (Project 767780 - New)

$150.95 - State of Ohio, Department of Education, Columbus, Ohio, Upward Bound Summer Food Service Program, Office of Minority Affairs (L. K. Jackson), 12 June 1989 through 31 October 1989. (Project 767750 - Continuation)

TOTAL - STATE OF OHIO AWARDS $ 683,026.95

Industrial Research Contracts/Grants

$198,720.00 - Sandoz, Inc., East Hanover, New Jersey, ZK112-119 -- Study No. C201, Department of Psychiatry (M. R. Mavissakalian), 1 July 1989 through 31 December 1990. (Project 767749 - New)

$127,147.00 - General Electric Company, Cincinnati, Ohio, Duct Propagation Analysis and Termination Characterization, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 August 1989 through 31 December 1989. (Project 767744 - New)

$110,736.00 - Sandoz, Inc., East Hanover, New Jersey, ZK112-119 -- Study No. B202, Department of Psychiatry (M. R. Mavissakalian), 1 July 1989 through 30 September 1990. (Project 767779 - New)


October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$100,000.00  -  Duphar, B.V., Weesp, Holland, Medicinal Chemistry Research, College of Pharmacy (D. T. Witiak), 1 July 1989 through 30 June 1991. (Project 767753 - New)

$55,757.00  -  Neoprobe Corporation, Columbus, Ohio, Phase I-II Clinical Study: The Intraoperative Detection of Colorectal Cancer by Radiolabeled B72.3 Monoclonal Antibody, Department of Surgery (E. W. Martin), 1 August 1989 through 31 July 1990. (Project 766930 - Continuation)

$40,609.50  -  Burroughs Wellcome Company, Research Triangle Park, North Carolina, Evaluation of BW tPA in the Initial Lysis and Maintenance of Patency of Coronary Arteries in Patients with Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 1 July 1988 through 31 December 1989. (Project 766466 - Continuation)

$38,600.00  -  The Edison Materials Technology Center, Kettering, Ohio, Processing Oxide Superconducting Films as Infrared Wave Detectors, Department of Physics (T. R. Lernberger), 1 August 1989 through 31 July 1990. (Project 767772 - New)


$30,954.00  -  Honda of America Manufacturing, Inc., Marysville, Ohio, Basic Skills Training, Education Administration (J. J. Buffer), 1 June 1989 through 1 December 1989. (Project 767679 - New)

$28,113.33  -  Merck and Company, Rahway, New Jersey, Merck Urine Dose Confirmation Study, Department of Veterinary Clinical Sciences (J. J. Kowalski), 1 August 1989 through 31 December 1989. (Project 767687 - New)

$26,000.00  -  Burroughs Wellcome Company, Research Triangle Park, North Carolina, Open, Multicenter Study of the Safety of PROLYSISR (BW tPA) in Patients with Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 1 July 1989 through 30 June 1990. (Project 767722 - New)

$20,132.00  -  Mission Research Corporation, Santa Barbara, California, Compact Range System Development, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 1 July 1989 through 1 September 1989. (Project 767463 - Continuation)

$20,000.00  -  The Procter and Gamble Company, Cincinnati, Ohio, Model Gastritis Infections: Pathogenesis, Immune Response, and Therapeutic Intervention, Department of Veterinary Pathobiology (G. S. Krakowka), 1 June 1989 through 30 April 1990. (Project 767763 - New)

October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$15,000.00 - Beecham Laboratories, Bristol, Tennessee, A Randomized, Double-Blind, Multicenter Study Comparing Myocardial Function, Patency, and Safety of Intravenous EMINASE® (anistreplase; APSAC; BRL 26921) Versus Intravenous Alteplase (I-PA) in Patients with an Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 23 August 1989 through 22 August 1990. (Project 767764 - New)

$12,000.00 - Rosemount, Inc., Burnsville, Minnesota, Advanced Radar Cross Section Measurements, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 1 March 1989 through 30 September 1989. (Project 766668 - Continuation)

$12,000.00 - Stuart Pharmaceuticals, Wilmington, Delaware, A Multicenter Comparison of Zoladex Depot and Surgical Castration in Metastatic Prostate Carcinoma, Department of Surgery (J. R. Drago), 1 September 1985 through 30 June 1990. (Project 765067 - Continuation)

$8,998.00 - Corpak, Inc., Wheeling, Illinois, The Efficacy of Citrate Solution Flushes in the Prevention of Nasogastric Feeding Tube Occlusion, School of Allied Medical Professions (J. C. Burge), 1 June 1989 through 31 May 1990. (Project 767723 - New)

$7,150.00 - Ross Laboratories, Columbus, Ohio, Enteral Feeding Device Study, Department of Veterinary Clinical Sciences (C. A. Buffington), 15 June 1989 through 14 June 1991. (Project 767699 - New)

$6,137.50 - Sandoz, Inc., East Hanover, New Jersey, A Double-Blind, Multicenter Study to Determine the Safety and Efficacy of Chronic Sandostatin Treatment in Acromegalic Patients, Department of Internal Medicine (W. B. Malarkey) 1 March 1989 through 30 June 1990. (Project 767693 - New)

$1,000.00 - Various Food Companies, Minority Internships in Food Science and Nutrition, Department of Food Science and Nutrition (M. E. Mangino and G. W. Chism III), 1 June 1990 through 31 May 1991. (Project 767691 - New)

Travel - International Business Machines Corporation, San Jose, California, Garnet Thin Films for Magneto-Optic Recording Media, Department of Physics (P. E. Wigen), 1 December 1988 through 30 November 1989. (Project 767208 - New) (Approximate Dollar Value - $7,000)

TOTAL - INDUSTRIAL AWARDS $ 1,132,582.33

Other Non-Federal Research Contracts/Grants

$721,070.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, OTO Office Support Project, Office of International Affairs (D. G. McCloud), 1 April 1989 through 30 June 1990. (Project 767598 - New)

$162,342.00 - Butler County Children Services Board, Hamilton, Ohio, Development of Living Skills Program, Cooperative Extension Field Operations (P. H. Simmons-Schear), 1 July 1989 through 30 June 1991. (Project 767719 - New)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$156,250.00 - Getty Center for Education in the Arts, Los Angeles, California, The Ohio Partnership for Visual Arts: Regional Institute for Educators, Department of Art Education (N. MacGregor and M. J. Parsons), 1 April 1989 through 30 June 1990. (Project 766784 - Continuation)

$150,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Application for a Grant to Help Create an American Cancer Society Professorship of Clinical Oncology, Department of Otolaryngology (D. E. Schuller), 1 July 1989 through 30 June 1994. (Project 767737 - New)

$142,050.00 - Inland Fisher Guide Division, General Motors Corporation/United Auto Workers/The Ohio State University, Columbus, Ohio, IFG/UAW/OSU Cooperative Research Agreement, Department of Industrial and Systems Engineering (G. L. Smith), Academic Affairs Administration (H. L. Gauthier), Department of Psychology (R. S. Billings and R. J. Vance), Academic Faculty of Management and Human Resources (A. E. Reichers and J. Wanous), Department of Communication (K. J. Krone), Department of English (K. O. Locker), Department of Economics (L. F. Dunn), Academic Faculty of Labor Education and Research Services (R. M. Montgomery and E. E. Daniels), and Department of Preventive Medicine (C. A. Heaney), 1 July 1989 through 30 September 1991. (Project 767599 - New)

$100,000.00 - Ohio University, Athens, Ohio, Molecular Farming: Recombinant Gene Expression in Bovine Mammary Gland and Hen Oviduct, Department of Dairy Science - OARDC (F. L. Schanbacher and C. P. Hodgson), 1 July 1989 through 30 June 1990. (Project 766005 - Continuation)

$62,732.00 - The Cleveland Foundation, Cleveland, Ohio, Development of a Management Design Program, Business Administration (J. D. Ford), 1 July 1989 through 30 June 1991. (Project 767726 - New)

$60,000.00 - American Cancer Society, New York, New York, American Cancer Society Institutional Research Grant, Comprehensive Cancer Center (D. S. Yohn), 1 July 1989 through 30 June 1990. (Project 764472 - Continuation)


$45,300.00 - American Cancer Society, Atlanta, Georgia, Total Synthesis of Neoliacinic Acid, Department of Chemistry (L. A. Paquette and D. N. Deaton), 1 July 1989 through 30 June 1991. (Project 767756 - New)

$35,000.00 - American Lung Association, New York, New York, Oxidant Injury in the Adult Respiratory Distress Syndrome (ARDS), Department of Internal Medicine (W. B. Davis), 1 July 1989 through 30 June 1990. (Project 765375 - Continuation)

$33,931.00 - California Institute of Technology, Pasadena, California, Experimental Study of Decentralized Control Approach Applied to Control of Large Flexible Space Structures, Department of Electrical Engineering (U. Ozguner and K. Ossman), 11 August 1989 through 10 March 1990. (Project 767678 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$25,000.00 - American Association of Oral and Maxillofacial Surgeons, Rosemont, Illinois, Changes in the Trigeminal Ganglion and Nuclear Complex Following Maxillary Osteotomies, Oral and Maxillofacial Surgery (B. Steinberg), 1 July 1989 through 30 June 1990. (Project 767740 - New)

$25,000.00 - American Lung Association, New York, New York, Contrast Models of Neutrophil Recruitment to the Lung: Pneumonia Versus Sepsis, Department of Internal Medicine (J. E. Gadek and G. C. Kindt), 1 July 1989 through 30 June 1990. (Project 766912 - Continuation)

$25,000.00 - Emergency Medicine Foundation, Irving, Texas, The Myocardial Sequelae of Irreversible Shock and Uncontrolled Continuous Hemorrhage, Department of Preventive Medicine (P. F. Van Ligten), 1 July 1989 through 30 June 1990. (Project 767758 - New)


$24,959.00 - Capital University, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 1 August 1989 through 31 May 1990. (Project 767695 - Continuation)

$24,300.00 - University of Nebraska, Lincoln, Nebraska, Low-Input Ridge Tillage System for the Corn Belt, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (R. C. Reeder), 1 June 1988 through 30 September 1989. (Project 767733 - New)

$20,400.00 - Ford Foundation, New York, New York, R. Chakravarti Fellowship, Department of History of Art (S. L. Huntington), 16 August 1989 through 30 June 1990. (Project 767724 - New)

$20,000.00 - Ohio Cancer Research Associates, Columbus, Ohio, Molecular Lesion of 5q Chromosome in Acute Non-Lymphocytic Leukemia (ANLL) Patients, Department of Internal Medicine (I. M. Chiu and D. E. Thornton), 1 July 1989 through 30 June 1990. (Project 766910 - Continuation)

$18,000.00 - Ohio Cancer Research Associates, Columbus, Ohio, Importance of the Hexose Monophosphate Pathway in the Metabolism of Tumor Tissue, Department of Internal Medicine (A. L. Sagone), 1 July 1989 through 30 June 1990. (Project 766923 - Continuation)

$16,765.00 - Ohio Dominican College, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1989 through 15 May 1990. (Project 767748 - Continuation)

$14,960.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, The Role of the C-mos Proto-oncogene in Cellular Proliferation, Department of Anatomy (B. E. Batten), 1 July 1989 through 30 June 1990. (Project 767670 - New)

$12,744.00 - Dublin Local Schools, Dublin, Ohio, Adaptive Physical Education Internship, School of Health, Physical Education, and Recreation (P. Jansma), 1 September 1989 through 30 June 1990. (Project 767746 - Continuation)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$10,330.64 - Virginia Polytechnic Institute, Blacksburg, Virginia, Development of Monoclonal Antibodies Against Pituitary Isohormones, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 30 September 1988 through 22 September 1990. (Project 767721 - New)

$8,426.00 - Otterbein College, Westerville, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1989 through 15 June 1990. (Project 767705 - Continuation)

$8,208.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1988 through 30 September 1989. (Project 766813 - Continuation)

$5,000.00 - Ohio Nurseriesmen's Association, Inc., Columbus, Ohio, Impact of the Nursery Industry on Ohio's Economy, Department of Horticulture - OARDC and Department of Horticulture (T. Rhodus) and Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (R. D. Taylor), 1 September 1989 through 31 August 1990. (Project 767725 - New)

$4,628.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologicals Committee Activities of the Community Clinical Oncology Programs, Department of Internal Medicine (J. J. Rinehart), 1 June 1989 through 31 May 1990. (Project 765841 - Continuation)

$3,575.00 - University of Rochester, Rochester, New York, Smooth Muscle Model System for the Induction of Oxygen Regulated Proteins During Ischemia, Department of Anatomy (A. R. Strauch), 1 July 1989 through 30 August 1990. (Project 767736 - New)

$3,000.00 - Bedding Plants Foundation, Inc., Lansing, Michigan, Genetic Engineering of S-Allele Proteins of Petunia: Assessment of the Potential for Introduction of Novel Breeding Barriers into Horticultural Crops, Department of Molecular Genetics (T. L. Sims), 1 September 1989 through 31 August 1990. (Project 767768 - New)

$3,000.00 - Commonwealth of Kentucky, Frankfort, Kentucky, National Entrepreneurship Education Consortium, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767682 - Continuation)

$2,500.00 - Nebraska Department of Education, Lincoln, Nebraska, National Consortium of State Career Guidance Supervisors, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767680 - Continuation)

$2,000.00 - Bergen Community College, Paramus, New Jersey, National Alliance of Community and Technical Colleges, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767681 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $2,018,633.64
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$184,820.00 - from The Industrial Commission of Ohio, Columbus, Ohio, for "An Evaluation of the motion Component in Manual Lifting," under the direction of the Department of Industrial and Systems Engineering for the period July 1, 1989 through June 30, 1990. (529815)

Industrial and Other Sponsored Research and Development

$88,470.00 - from General Dynamics, Fort Worth, Texas, for "Development of Radar Target Identification Algorithms," under the direction of the Department of Electrical Engineering for the period August 1, 1989 through December 31, 1989. (529819)

$87,270.00 - from AITRC/CAS, Columbus, Ohio, for "An Analysis of Performance and Cost Factors in Searching Large Databases Using Parallel Search Systems," under the direction of the department of Computer and Information Science for the period July 1, 1989 through June 30, 1990. (529821)

$62,400.00 - from General Electric Company, Cincinnati, Ohio, for "Testing of the CF6-80C2 Engine Simulator in a Scale Model of the Japan Air Lines Test Cell," under the direction of the Department of Aeronautical and Astronautical Engineering for the period July 1, 1989 through October 16, 1989. (312513)

$57,287.00 - from 30 sponsors of 35 development projects in three departments/research areas of the College.

$40,000.00 - from various industry for membership in "Compact Range Cross Section Measurement Ranges Research and Development Consortium," under the direction of the Department of Electrical Engineering. (312884)

$36,402.00 - from General Electrical Company, Cincinnati, Ohio, for "Active Limitation of Base Metal Melting in Weld Repair of Casting," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 15, 1989. (529817)

$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Thermal/Stress Modeling of Plastic Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529356)

$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Weldability Test Techniques," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529354)

$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Creep of Stainless Steel Welds," under the direction of the Department of Materials Science & Engineering for the period July 1, 1989 through December 31, 1989. (529367)

$24,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Full Penetration in Precision GTAW," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529358)
Industrial and Other Sponsored Research and Development (contd)

$24,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Computer-Aided Tomography," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529361)

$23,983.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529371)

$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Penetration in High Radiance Laser Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529355)

$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "NDE of Composite Materials and Welds," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529352)

$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Silicate Brazing of Ceramics," under the direction of the Department of Materials Science & Engineering for the period July 1, 1989 through December 31, 1989. (529351)

$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Real Time Radiographic Control of Arc Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529360)

$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Analytical Electron Microscopy of Weld Metals," under the direction of the Department of Materials Science & Engineering for the period July 1, 1989 through December 31, 1989. (529362)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Characterization of Polymers in Vicinity of Welded Joints," under the direction of the Department of Chemical Engineering for the period July 1, 1989 through December 31, 1989. (529365)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Significance of Local Brittle Zone Site," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529368)

$20,000.00 - from EPRI, Palo Alto, California, for "HVDC Converter Station Electromagnetic Noise Study," under the direction of the Department of Electrical Engineering for the period February 4, 1986 through December 31, 1990. (529714, Ext. 3)

$19,724.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529370)

$19,582.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529369)
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$17,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Solid State Weld Strength by Ultrasonic Spectroscopy," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529353)

$17,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Arc Sensing Pool Oscillation for Penetration Control," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529359)

$15,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Offline Robotic Programming," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529357)

$12,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Seam Welding of Coated Steels," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529363)

$10,500.00 - from various industry for membership in the Gear Research Laboratory, under the direction of the Department of Mechanical Engineering. (529735)

$10,000.00 - from various industry for associate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$8,356.00 - additional funding from Edison Welding Institute, Columbus, Ohio, for "Zirconia to Metal Brazing," under the direction of the Department of Materials Science and Engineering for the period June 1, 1988 through August 31, 1989. (312463, Ext. 1)

$8,100.00 - from NCR Corporation, Cambridge, Ohio, for "Flow Analysis and Design of a Plastic Part," under the direction of the Department of Mechanical Engineering for the period August 1, 1989 through October 31, 1989. (529820)

$5,000.00 - from Arco Chemical Company, Newtown Square, PA, for "Grant to Support Upgrading Image Processing and Analysis Workstation," under the direction of the Department of Chemical Engineering for the period July 1, 1989 through June 30, 1990. (529816)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $831,074.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Designated Professorship

The American Electric Power Professorship of Power Systems Engineering

The American Electric Power Professorship of Power Systems Engineering was established October 6, 1989, as a designated professorship program, by the Board of Trustees of The Ohio State University. This prestigious position was made possible through annual gifts from the American Electric Power System.
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Designated Professorship (contd)

The American Electric Power Professorship of Power Systems Engineering (contd)

Each year the funds given for the American Electric Power Professorship will be used to provide compensation and/or program support for a truly distinguished member of the Department of Electrical Engineering. Selection for the coveted honor will be made by the Dean of the College of Engineering in consultation with the Chairperson of Electrical Engineering and with the approval of the Provost of the University. The professorship will be awarded on a year-to-year basis and may be renewable.

Establishment of Named Funds

The Sandoz Pharmaceuticals Corporation Endowment Fund for Clinical Research

The Sandoz Pharmaceuticals Corporation Endowment Fund for Clinical Research was established October 6, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Sandoz Research Incorporated, designated for support of clinical research in the College of Medicine and University Hospitals.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for clinical research, including salary and program costs in the College of Medicine and University Hospitals. Clinical research grants and fellowships in areas of mutual interest to the donor and the University will be awarded to eminent faculty members, selected by the Associate Dean of Clinical Affairs in consultation with the Vice President for Health Services and the Dean of the College of Medicine.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Medicine and the Vice President for Health Services in order to carry out the desire of the donor.

The Sam Segall Memorial Library Fund

The Sam Segall Memorial Library Fund was established October 6, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Samuel Segall (D.V.M. ’50) of Youngstown, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.
Establishment of Named Funds (contd)

The Sam Segall Memorial Library Fund (contd)

The annual income shall be used to purchase library books and periodicals for the Veterinary College Library; however, if the annual income of this fund is in excess of the amount needed to purchase library books and periodicals during any year, the excess shall be added to The Sam Segall Memorial Scholarship Fund.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donor.

The Sam Segall Memorial Scholarship Fund

The Sam Segall Memorial Scholarship Fund was established October 6, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Samuel Segall (D.V.M. '50) of Youngstown, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students enrolled in the College of Veterinary Medicine. The number and amount of each such scholarship and the recipient(s) thereof shall be selected by the Dean of the College of Veterinary Medicine and his or her associates, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donor.

The Virginia I. Zirkle Scholarship Fund

The Virginia I. Zirkle Scholarship Fund was established October 6, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Virginia I. Zirkle (B.S.H.E. '45) of Ottawa, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Virginia I. Zirkle Scholarship Fund (contd)

The annual income shall be used to provide one or more scholarships to a student(s) from Putnam County enrolled in the College of Human Ecology or University College with a curricular academic program (CAP) of Human Ecology, at either the Columbus Campus or the Lima Campus. The student(s) should have good potential for career success, have good leadership qualities and be in the upper one-third of his/her high school graduating class academically. Preference should be given to a freshman. If a freshman student is not identified who meets these criteria, then an upper class undergraduate student from Putnam County should be selected. If neither a freshman student nor an upper class undergraduate student from Putnam County is identified, students from the following counties may be considered in order of donor's preference: Van Wert, Allen, Hancock, Henry, Defiance, Paulding. Criteria for selection shall be the same for these students. Selection of the recipient(s) shall be made by the College of Human Ecology Scholarship Committee in consultation with the University Committee on Student Financial Aid. Preference should be given to a Lima Campus student.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

Change in Name and Description of Named Fund

The John J. Gerlach Chair Fund

The John J. Gerlach Professorship Fund was established December 9, 1982, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the family and friends of John J. Gerlach (B.S.Bus Adm. '23; M.A. '23). The name and description were revised October 6, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the fund's principal until the principal reaches $1,250,000. At that time the annual income shall be used to provide support for the work of a distinguished teacher and scholar of accounting in the College of Business. Appointment to the Gerlach Chair will be recommended by the Dean of the College of Business to the Vice President for Academic Affairs and Provost of the University and approved by the Board of Trustees.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donors.
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds

The Sphinx Endowment Fund

The Sphinx Endowment Fund was established November 5, 1982, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members and friends of the Sphinx Senior Class Honor Society. The description was revised December 14, 1984; April 7, 1989; and has been further revised October 6, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income may be used to provide funds for any or all of the following:

(1) Scholarships to one or more of the current class of active Sphinx members who are entering or are in their senior year of undergraduate study;

(2) the continued maintenance of, and the addition of class plaques to, the Sphinx Plaza;

(3) the costs of communications with Sphinx members for gift support and reunion activities; and

(4) the support of current active chapter activities.

To the extent annual income is not adequate, principal may be used for the same purposes for which income may be used. Principal may also be used for the further development of the site and structures in and adjacent to the Sphinx Plaza and for the upkeep and maintenance of such further developments. At the end of each of the University's fiscal years, any unallocated income balance shall be transferred to the principal account. All expenditures of income and principal shall be approved in advance by the affirmative vote of a majority of the members of the Sphinx Alumni Council which shall be made up of the current active chapter Sphinx President, the Sphinx faculty advisor, the Director of Alumni Affairs, and three Sphinx alumni members appointed by The Ohio State University Alumni Association Board of Directors.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees of The Ohio State University.

Robert M. Zollinger Lectureship Fund

The Robert M. Zollinger Lectureship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members of the Zollinger Club and colleagues and friends of Robert M. Zollinger (B.S. '25, M.D. '27). The description was revised October 6, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
October 6, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

Robert M. Zollinger Lectureship Fund (contd)

The annual income shall be used to support a distinguished lectureship within the Department of Surgery. The speaker will be selected by the Executive Committee of the Zollinger/Ohio State University Surgical Society in consultation with the department chairperson.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Chairperson of the Department of Surgery, the Executive Committee of the Zollinger/Ohio State University Surgical Society and the Dean of the College of Medicine in order to carry out the desire of the donors.

---0---

Employment of Architect/Engineer and Request for Construction Bids

Background

Coffey Road Intramural Fields

The installation of a grass playing surface in Ohio Stadium necessitates development and installation of replacement intramural facilities. This project will develop the field south of Woody Hayes Drive and east of Coffey Road to include five flag football fields, five softball fields, a small storage building, and restrooms. Two of the flag football fields and two of the softball fields will have lighting.

Funds for this project are available from the Athletic Department. Construction costs are estimated from the Athletic Department. Construction costs are estimated at $375,000.00, and the total estimated project cost is $475,000.00.

(See Appendix XX for map, page 369.)

EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 90-36

COFFEY ROAD INTRAMURAL FIELDS

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Coffey Road Intramural Fields project.

WHEREAS this project will develop the fields south of Woody Hayes Drive and east of Coffey Road and install five flag football fields, five softball fields, a small storage building, and restrooms; and
EMPLOYMENT OF ARCHITECT/ENGINEER AND REQUEST FOR CONSTRUCTION BIDS (contd)

COFFEY ROAD INTRAMURAL FIELDS (contd)

WHEREAS the total estimated cost of this project is $475,000.00, with the estimated construction cost being $375,000.00, with funding provided from the Athletic Department:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select a qualified architectural/engineering firm as necessary for this project and that the fees for these services be negotiated between the firm selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

PURCHASE OF REAL PROPERTY

Background

141 West 11th Avenue
Columbus, Ohio

Location and Description

The property consists of a two and one-half story, four-unit brick and frame residence and a detached frame two-car garage located on approximately 0.11 acres at 141 West 11th Avenue in Columbus, Ohio. The house formerly was a single family residence which was converted for multiple tenancy in the 1950's. The house, built around the turn of the century, contains approximately 2,450 net square feet of living space, plus finished attic and unfinished basement, and is in excellent condition. The property is located within the South Campus acquisition boundary of the University's Master Plan.

Appraisals and Purchase Price

Two MAI appraisals, one by Wilhelm and Associates and the other by Charles R. Allen and Associates, both done in June 1988, valued the property at $80,000.00. The owners, Charles Beatley of Alexandria, Virginia, and his sister Mary Alice Beatley Jordan of Sunland, California, have offered to sell the property to the University for that amount. Funds for the purchase will be provided from University funds, including funds resulting from the previous sale of properties outside the acquisition boundary.
PURCHASE OF REAL PROPERTY (contd)

Background (contd)

141 West 11th Avenue
Columbus, Ohio (contd)

Use of the Property

Title to the property will be taken in the name of the State of Ohio for the use of The Ohio State University. Because the property is located within the Master Plan boundary, acquisition is important for the University's long-range plans for the South Campus area. Because of the excellent condition of the residence, the property will be used for housing or offices for the foreseeable future.

(See Appendix XXI for map, page 371.)

PURCHASE OF REAL PROPERTY

Resolution No. 90-37

141 WEST 11TH AVENUE
COLUMBUS, OHIO

Synopsis: The Fiscal Affairs Committee recommended the purchase of the improved real property located at 141 West 11th Avenue in Columbus, Ohio.

WHEREAS The Ohio State University has been presented with an opportunity to purchase the property located at 141 West 11th Avenue in Columbus, Ohio; and

WHEREAS this property has an appraised value of $80,000.00 and the owners, Charles Beatley of Alexandria, Virginia, and Mary Alice Beatley Jordan of Sunland, California, have offered to sell the property to the University at that price; and

WHEREAS this property is located within the South Campus acquisition boundary of the University's Master Plan and the appropriate University officers have determined that the purchase of this property is in the best interest of the University; and

WHEREAS funds for the purchase will be provided from general University funds, including those resulting from previous sales of property outside the acquisition boundary:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the State of Ohio for the use of The Ohio State University, the improved real property located at 141 West 11th Avenue at a price not to exceed $80,000.00, upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

340
October 6, 1989 meeting, Board of Trustees

**STRS EARLY RETIREMENT INCENTIVE PROGRAM**
Resolution No. 90-38

Synopsis: The Fiscal Affairs Committee recommended the approval of the STRS Early Retirement Incentive Program.

WHEREAS in July 1983, the Ohio General Assembly enacted Amended Substitute House Bill 410 which became effective on October 7, 1983, enabling universities and colleges to establish retirement incentive plans for individuals at their respective institutions who are members of the State Teachers Retirement System (STRS); and

WHEREAS The Ohio State University desires to adopt such a retirement incentive plan in order to provide more flexibility in its long term planning for its academic human resource needs:

NOW THEREFORE

BE IT RESOLVED, That effective January 1, 1990, and continuing for two years thereafter, the University will purchase service credit, in one year increments, for eligible STRS members electing to retire under this plan, and further that the amount of service credit purchased shall not exceed the lesser of five years or one-fifth of the individual's total service credited by STRS as of the date the eligible STRS member elects to participate in this plan; and

BE IT FURTHER RESOLVED, That to be eligible, all members must be members of STRS and be currently eligible to retire or eligible to retire after including the years of service credit to be purchased under the plan; and

BE IT FURTHER RESOLVED, That the maximum number of eligible members under this plan will be limited to five percent (5%) of the total number of individuals at the University who are members of STRS as of January 1, 1990, and further that if the total number of persons applying for this program exceeds the five percent (5%) maximum, then approval for participation will be determined in accordance with Section 3307.35; and

BE IT FURTHER RESOLVED, That those individuals who are eligible and approved for participation in this plan must retire within ninety (90) days of notification that additional service credit has been purchased; and further that those individuals who retire under this plan will not be eligible for participation in any other supplemental or early retirement program previously established by the University; and

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Personnel Services are hereby authorized to notify the State Teachers Retirement System on the official form approved by that agency of The Ohio State University's election to participate in the retirement incentive plan in accordance with Section 3307.35 and the terms of this resolution.

BE IT FURTHER RESOLVED, That those individuals who retire under this plan will not be eligible for re-employment with the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
October 6, 1989 meeting, Board of Trustees

PERS EARLY RETIREMENT INCENTIVE PROGRAM
Resolution No. 90-39

Synopsis: The Fiscal Affairs Committee recommended approval of the PERS Early Retirement Incentive Program.

WHEREAS the Ohio General Assembly enacted Amended Substitute House Bill 706 which enables State agencies and institutions of higher education to establish retirement incentive plans for individuals at their respective institutions who are members of the Public Employees Retirement System (PERS); and

WHEREAS The Ohio State University desires to adopt such a retirement incentive plan in order to provide more flexibility in its long term planning for its human resource needs:

NOW THEREFORE

BE IT RESOLVED, That effective January 1, 1990, and continuing for two years thereafter, the University will purchase service credit, in one year increments, for eligible PERS members electing to retire under this plan, and further that the amount of service credit purchased shall not exceed the lesser of five years or one-fifth of the individual's total service credited by PERS as of the date the eligible PERS member elects to participate in this plan; and

BE IT FURTHER RESOLVED, That to be eligible, all members must be members of PERS and be currently eligible to retire or eligible to retire after including the years of service credit to be purchased under the plan; and

BE IT FURTHER RESOLVED, That the maximum number of eligible members under this plan will be limited to five percent (5%) of the total number of individuals at the University who are members of PERS as of January 1, 1990, and further that if the total number of persons applying for this program exceeds the five percent (5%) maximum, then approval for participation will be determined in accordance with Section 145.297(C); and

BE IT FURTHER RESOLVED, That those individuals who are eligible and approved for participation in this plan must retire within ninety (90) days of notification that additional service credit has been purchased; and further that those individuals who retire under this plan will not be eligible for participation in any other supplemental or early retirement program previously established by the University; and

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Personnel Services are hereby authorized to notify the Public Employees Retirement System on the official form approved by that agency of The Ohio State University's election to participate in the retirement incentive plan in accordance with Section 145.297 and the terms of this resolution.

BE IT FURTHER RESOLVED, That those individuals who retire under this plan will not be eligible for re-employment with the University.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
October 6, 1989 meeting, Board of Trustees

AWARD OF THE LOW COST MEDICAL PLAN (BUCKEYE PLAN)
FOR THE FACULTY/STAFF BENEFIT PROGRAM
Resolution No. 90-40

Synopsis: The Fiscal Affairs Committee recommended the award of the low cost medical plan (Buckeye Plan) for the faculty/staff benefit program.

WHEREAS the Board of Trustees in a previous resolution directed the Vice President for Personnel Services to investigate another option for University faculty and staff in the form of a low cost medical plan; and

WHEREAS William M. Mercer-Meidinger-Hansen, Incorporated was employed to assist in the plan design and preparation of, specifications and proposal forms; and

WHEREAS after public advertisement, specification and proposal forms were mailed to eighteen carriers; six did not respond, nine declined in writing to quote, and three carriers submitted proposals; and

WHEREAS the appropriate University offices, Coopers & Lybrand and William M. Mercer-Meidinger-Hansen, Incorporated have reviewed the proposals and, based on financial considerations, claims processing capabilities, other administrative services and carrier financial stability, it is the recommendation of the Office of Personnel Services that the best package for the low cost medical plan, to be named the Buckeye Plan, is offered by John Hancock Mutual Life Insurance Company. The monthly premiums quoted by John Hancock are:

<table>
<thead>
<tr>
<th>Type of Coverage</th>
<th>Total Premiums</th>
<th>University Share</th>
<th>Individual Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>$ 81.11</td>
<td>$ 78.11</td>
<td>$ 3.00</td>
</tr>
<tr>
<td>Two Person</td>
<td>162.22</td>
<td>156.22</td>
<td>6.00</td>
</tr>
<tr>
<td>Family</td>
<td>256.10</td>
<td>248.10</td>
<td>8.00</td>
</tr>
</tbody>
</table>

NOW THEREFORE

BE IT RESOLVED, That the contract for coverage under the low cost medical plan (Buckeye Plan) be awarded for a one-year period effective January 1, 1990, with the premium and the performance of the carrier to be reviewed annually. This insurance contract will remain in force after the initial term until the Board of Trustees deems it appropriate to review the designation of the carrier and/or seek a new premium quotation.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS
Resolution No. 90-41

Synopsis: The Fiscal Affairs Committee recommended the approval for reimbursement of expenses for designated administrative officials.
October 6, 1989 meeting, Board of Trustees

REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS (contd)

WHEREAS the Fiscal Affairs Committee has authorized the payment of expenses for designated administrative officials; and

WHEREAS it is deemed in the best interest of the University for the Fiscal Affairs Committee to provide from the unrestricted gifts to the University Endowment Fund on an appropriate basis, to the President and designated University officials, reimbursement for expenditures which are directly and necessarily related to the performance of their assigned responsibilities and in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the Fiscal Affairs Committee be authorized to provide reimbursement to designated University officials from unrestricted gifts to the University Endowment Fund.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Thereupon the Board adjourned to meet Friday, November 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott                John W. Berry
Secretary                        Chairman
APPENDIX XVI

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
September 15, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees October 6, 1989
(See page 298)
**THE OHIO STATE UNIVERSITY**

**ENDOWMENT SUMMARY**

September 15, 1989

### Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>06-30-89</th>
<th>Percent of Equity</th>
<th>09-15-89</th>
<th>Percent of Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$34,629,320</td>
<td>13.98%</td>
<td>$37,235,188</td>
<td>14.33%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>-0-</td>
<td>-0-</td>
<td>14,439,143 (1)</td>
<td>5.56</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>11,475,663</td>
<td>4.63</td>
<td>12,988,716</td>
<td>5.00</td>
</tr>
<tr>
<td>Siebel</td>
<td>32,173,227</td>
<td>12.98</td>
<td>34,098,205</td>
<td>13.12</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>13,552,018</td>
<td>5.47</td>
<td>14,632,863</td>
<td>5.63</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>80,168,113</td>
<td>32.35</td>
<td>66,781,266</td>
<td>25.70</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$171,998,341</td>
<td>69.41%</td>
<td>$180,176,081</td>
<td>69.34%</td>
</tr>
</tbody>
</table>

|                  |          |                  |          |                  |
| **Fixed Income:**|          |                  |          |                  |
| Boatmen's Trust  | $23,841,580 | 9.62%           | $23,753,552 | 9.14%           |
| Cambridge        | 951,048 | 0.38             | 941,730 | 0.36             |
| Diff & Phelps    | 10,243,208 | 4.13            | 10,249,518 | 3.95            |
| WR Lazard        | -0-      | -0-              | 10,062,634 (2) | 3.87             |
| STW Fixed Income | 24,150,270 | 9.75             | 24,055,212 | 9.26             |
| OSU - GMA        | 10,144,887 | 4.10            | 10,143,882 | 3.90             |
| OSU Managed      | 6,465,211 | 2.63             | 4,666,726 | 1.88             |
| **Total Fixed Income** | $75,796,204 | 30.59%          | $79,673,324 | 30.66%          |

|                  | $247,794,545 | 100.00%          | $259,849,405 | 100.00%          |

### Total Portfolio

|                  | $287,298,389 |                  | $299,553,792 |                  |

(1) R. Meeder began as advisor on August 8, 1989 with $15,000,000.
(2) WR Lazard began as advisor on August 8, 1989 with $10,000,000.
### Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value September '88 to September '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (Chicago Corp.)</td>
<td>3.35%</td>
<td>20.91%</td>
<td>24.26%</td>
</tr>
<tr>
<td>Common Stock (R. Meeder)</td>
<td>0.20%</td>
<td>(3.74)</td>
<td>(3.54%) (14)</td>
</tr>
<tr>
<td>Common Stock (Nicholas-Applegate)</td>
<td>1.56%</td>
<td>30.07%</td>
<td>31.63%</td>
</tr>
<tr>
<td>Common Stock (Siebel)</td>
<td>5.06%</td>
<td>23.30%</td>
<td>28.36%</td>
</tr>
<tr>
<td>Mutual Fund</td>
<td>2.85%</td>
<td>24.68%</td>
<td>27.53%</td>
</tr>
<tr>
<td>Common Stock (OSU Managed)</td>
<td>5.74%</td>
<td>14.98%</td>
<td>20.72%</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>4.07%</td>
<td>27.49%</td>
<td>31.56%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Real Estate:</th>
<th>% Yield</th>
<th>% Change in Market Value September '88 to September '89</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.88%</td>
<td>0% (13)</td>
<td>3.88%</td>
</tr>
</tbody>
</table>

### Fixed Income:

| Bonds (Boatmen’s Trust) | 8.16% (6) | 12.63% | 20.79% |
| Bonds (Cambridge)        | 8.40% (7) | 1.85   | 10.25  |
| Bonds (Duff & Phelps)   | 8.13% (8) | 3.23   | 11.36  |
| Bonds (WR Lazard)        | 0.88% (9) | 0.63   | 1.51 (14) |
| Bonds (STW Fixed Income) | 9.02% (10) | 8.41 | 17.43 |
| Bonds (OSU - GNMA)       | 9.83% (11) | 1.97 | 11.80 |
| Bonds (OSU Managed)      | 9.04% (12) | (0.38)| 8.66  |
| Merrill Lynch Corporate/ Government Master | 8.76 | 3.91 | 12.67 |
| Shearson Lehman Hutton Government/ Corporate Index | 9.32 | 3.99 | 13.31 |

1. 1.4% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 7.9%.
2. 0.2% of R. Meeder portfolio is made up of cash and cash equivalents which earn 7.9%.
3. 2.6% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 7.9%.
4. 52.4% of Siebel portfolio is made up of cash and cash equivalents which earn 8.6%.
5. 55.1% of OSU Managed portfolio is made up of cash and cash equivalents which earn 8.8%.
6. 6.0% of Boatmen’s Trust portfolio is made up of cash and cash equivalents which earn 8.6%.
7. 1.3% of Cambridge portfolio is made up of cash and cash equivalents which earn 7.9%.
8. 1.0% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 7.9%.
9. 14.4% of WR Lazard portfolio is made up of cash and cash equivalents which earn 8.7%.
10. 1.2% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 7.9%.
11. 10.3% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.7%.
12. 0.6% of OSU Managed portfolio is made up of cash and cash equivalents.
13. Not able to compare 12 months.
14. Reflects return from initial allocation (August 8, 1989) only.
16. Income from University Cash Investments through September 30, 1989, totaled approximately $3,387,000.

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>% Change of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-89)</td>
<td>$287,298,389</td>
<td>Equities $124,594,786</td>
<td>41.59%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>4,979,256</td>
<td>Fixed Income 75,361,681</td>
<td>25.16</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(45,000)</td>
<td>Real Estate 39,600,000</td>
<td>13.22</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>7,322,147</td>
<td>Cash 59,297,325</td>
<td>20.03</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$299,553,792</td>
<td>Total Portfolio $299,553,792</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

347
Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Real Estate

Sale

No Activity

<table>
<thead>
<tr>
<th>Total Investment</th>
</tr>
</thead>
</table>

Total Investment
<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,100</td>
<td>Biomet, Inc.</td>
<td>Chicago</td>
<td>26.0183</td>
<td>$184,730.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4,000</td>
<td>Gap, Inc.</td>
<td>&quot;</td>
<td>50.8750</td>
<td>203,760.00</td>
<td>3,040.00</td>
</tr>
<tr>
<td>5,600</td>
<td>Home Depot, Inc.</td>
<td>&quot;</td>
<td>14.6530</td>
<td>194,420.80</td>
<td>672.00</td>
</tr>
<tr>
<td>4,100</td>
<td>Illinois Tool Works, Inc.</td>
<td>&quot;</td>
<td>45.8720</td>
<td>188,341.70</td>
<td>2,460.00</td>
</tr>
<tr>
<td>2,800</td>
<td>RPM, Inc.</td>
<td>&quot;</td>
<td>18.9060</td>
<td>52,936.80</td>
<td>1,736.00</td>
</tr>
<tr>
<td>5,100</td>
<td>Telecredit, Inc.</td>
<td>&quot;</td>
<td>37.4020</td>
<td>190,750.00</td>
<td>5,100.00</td>
</tr>
<tr>
<td>2,900</td>
<td>Temple-Inland, Inc.</td>
<td>&quot;</td>
<td>66.1870</td>
<td>192,130.80</td>
<td>3,364.00</td>
</tr>
<tr>
<td>6,900</td>
<td>Textron, Inc.</td>
<td>&quot;</td>
<td>27.5500</td>
<td>190,543.50</td>
<td>6,900.00</td>
</tr>
<tr>
<td>2,000</td>
<td>Baxter International, Inc.</td>
<td>Nicholas-Applegate</td>
<td>23.6250</td>
<td>47,370.00</td>
<td>1,120.00</td>
</tr>
<tr>
<td>4,100</td>
<td>Dayton Hudson Corp.</td>
<td>&quot;</td>
<td>62.7050</td>
<td>257,336.50</td>
<td>4,592.00</td>
</tr>
<tr>
<td>6,100</td>
<td>Flight Safety International, Inc.</td>
<td>&quot;</td>
<td>43.2655</td>
<td>264,285.30</td>
<td>976.00</td>
</tr>
<tr>
<td>12,400</td>
<td>Foster Wheeler, Inc.</td>
<td>&quot;</td>
<td>21.4520</td>
<td>266,748.80</td>
<td>5,456.00</td>
</tr>
<tr>
<td>2,500</td>
<td>Liz Claiborne, Inc.</td>
<td>&quot;</td>
<td>24.7500</td>
<td>61,875.00</td>
<td>425.00</td>
</tr>
<tr>
<td>2,400</td>
<td>Lotus Development Corp.</td>
<td>&quot;</td>
<td>26.5000</td>
<td>63,600.00</td>
<td>0.00</td>
</tr>
<tr>
<td>1,600</td>
<td>Microsoft Corp.</td>
<td>&quot;</td>
<td>63.1119</td>
<td>100,979.12</td>
<td>0.00</td>
</tr>
<tr>
<td>800</td>
<td>Transco Energy Co.</td>
<td>&quot;</td>
<td>48.4460</td>
<td>38,804.80</td>
<td>1,088.00</td>
</tr>
<tr>
<td>1,700</td>
<td>Whealaborator Technologies, Inc.</td>
<td>&quot;</td>
<td>39.0960</td>
<td>66,565.20</td>
<td>0.00</td>
</tr>
<tr>
<td>328</td>
<td>Banc One Corp.*</td>
<td>OSU</td>
<td>35.7029</td>
<td>11,710.56</td>
<td>341.12</td>
</tr>
<tr>
<td>300</td>
<td>Bob Evans Farms, Inc.*</td>
<td>&quot;</td>
<td>15.1875</td>
<td>4,556.25</td>
<td>72.00</td>
</tr>
<tr>
<td>80</td>
<td>Worthington Industries, Inc.*</td>
<td>&quot;</td>
<td>24.6250</td>
<td>1,970.00</td>
<td>35.20</td>
</tr>
<tr>
<td>10,500</td>
<td>Intel Corp.</td>
<td>Siebel</td>
<td>30.5000</td>
<td>320,250.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

$2,903,665.13 $37,377.32

* Gift.
## The Ohio State University
Common & Preferred Stock

### Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,200</td>
<td>Carter Wallace, Inc.</td>
<td>Chicago</td>
<td>49.8750</td>
<td>$209,195.01</td>
<td>$38,831.46</td>
</tr>
<tr>
<td>8,700</td>
<td>Flowers Industries, Inc.</td>
<td>&quot;</td>
<td>19.5000</td>
<td>$169,078.84</td>
<td>$10,013.34</td>
</tr>
<tr>
<td>3,537</td>
<td>Marion Laboratories, Inc.</td>
<td>&quot;</td>
<td>38.0000</td>
<td>$134,406.00</td>
<td>68,741.59</td>
</tr>
<tr>
<td>6,200</td>
<td>Masco Corp.</td>
<td>&quot;</td>
<td>28.5000</td>
<td>$176,291.11</td>
<td>110,567.40</td>
</tr>
<tr>
<td>3,900</td>
<td>Mercantile Stores, Inc.</td>
<td>&quot;</td>
<td>49.1250</td>
<td>$191,327.60</td>
<td>44,428.65</td>
</tr>
<tr>
<td>6,300</td>
<td>Ryder Systems, Inc.</td>
<td>&quot;</td>
<td>29.0390</td>
<td>$182,530.10</td>
<td>86,250.81</td>
</tr>
<tr>
<td>4,200</td>
<td>Scott Paper Co.</td>
<td>&quot;</td>
<td>50.6250</td>
<td>$212,344.91</td>
<td>62,971.91</td>
</tr>
<tr>
<td>3,700</td>
<td>Sealed Air Corp.</td>
<td>&quot;</td>
<td>17.2500</td>
<td>$63,582.37</td>
<td>57,391.90</td>
</tr>
<tr>
<td>5,400</td>
<td>Universal Corp.</td>
<td>&quot;</td>
<td>38.2500</td>
<td>$206,192.11</td>
<td>40,391.88</td>
</tr>
<tr>
<td>3,100</td>
<td>Westinghouse Electric Corp.</td>
<td>&quot;</td>
<td>68.2120</td>
<td>$211,248.65</td>
<td>53,328.45</td>
</tr>
<tr>
<td>2,800</td>
<td>Albertson's, Inc.</td>
<td>Nicholas-Applegate</td>
<td>53.3750</td>
<td>$149,277.01</td>
<td>69,074.35</td>
</tr>
<tr>
<td>1,500</td>
<td>Home Depot, Inc.</td>
<td>&quot;</td>
<td>34.5000</td>
<td>$51,658.27</td>
<td>26,016.37</td>
</tr>
<tr>
<td>5,300</td>
<td>Motorola, Inc.</td>
<td>&quot;</td>
<td>57.8750</td>
<td>$306,409.27</td>
<td>1,180.77</td>
</tr>
<tr>
<td>2,200</td>
<td>Philip Morris Companies, Inc.</td>
<td>&quot;</td>
<td>160.0438</td>
<td>$351,952.71</td>
<td>138,065.78</td>
</tr>
<tr>
<td>5,400</td>
<td>US Air Group, Inc.</td>
<td>&quot;</td>
<td>48.3148</td>
<td>$260,566.98</td>
<td>45,367.38</td>
</tr>
<tr>
<td>820</td>
<td>Vivra, Inc.</td>
<td>&quot;</td>
<td>28.3750</td>
<td>$23,217.52</td>
<td>2,817.31</td>
</tr>
<tr>
<td>7</td>
<td>Ford Motor Co.*</td>
<td>OSU</td>
<td>52.5000</td>
<td>$390.73</td>
<td>10.11</td>
</tr>
<tr>
<td>1,733</td>
<td>Putnam High Income Government Trust Fund*</td>
<td>&quot;</td>
<td>12.3308</td>
<td>$21,369.31</td>
<td>(411.14)</td>
</tr>
<tr>
<td>4,000</td>
<td>AMR Corp.</td>
<td>Siebel</td>
<td>92.5625</td>
<td>$369,957.64</td>
<td>180,376.57</td>
</tr>
<tr>
<td>16,500</td>
<td>Consolidated Rail Corp.</td>
<td>&quot;</td>
<td>45.0559</td>
<td>$742,242.71</td>
<td>149,826.71</td>
</tr>
</tbody>
</table>

* Gift.

$4,033,238.85 $1,185,241.60
## The Ohio State University
### Bonds/Notes

### Bonds

#### Purchases Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>685,061</td>
<td>GMAC FHA Project #195 7.430% 11/01/25</td>
<td>Boatmen's</td>
<td>8.6679</td>
<td>8.7352</td>
<td>85.7188</td>
<td>$587,225.49</td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond 8.125% 08/15/19</td>
<td>Cambridge</td>
<td>8.1301</td>
<td>8.1300</td>
<td>99.9375</td>
<td>924,421.88</td>
</tr>
<tr>
<td>5,000,000</td>
<td>U.S. Treasury Bond 10.750% 08/15/05</td>
<td>STW</td>
<td>8.8694</td>
<td>8.3254</td>
<td>121.2031</td>
<td>6,060,156.45</td>
</tr>
</tbody>
</table>

$7,571,803.82
The Ohio State University  
Bonds/Notes

**Bonds**

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,000,000</td>
<td>U.S. Treasury Bond 10.375% 11/15/12</td>
<td>STW</td>
<td>118.7344</td>
<td>$5,936,718.75</td>
<td>$403,100.32</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$5,936,718.75</td>
<td>$403,100.32</td>
</tr>
</tbody>
</table>

352
THE OHIO STATE UNIVERSITY ENDOWMENT FUND
REAL ESTATE INVESTMENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Year</th>
<th>Invested</th>
<th>Appraised Value</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 950 Kinnear Road</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,550,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>1984</td>
<td>$825,000</td>
<td>$2,650,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>1961</td>
<td>$659,930</td>
<td>$1,250,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>1971</td>
<td>$1,320,693</td>
<td>$2,500,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>1968</td>
<td>$170,000</td>
<td>$696,000</td>
<td>06/89</td>
</tr>
<tr>
<td>46.964 acres of land in Delaware County</td>
<td>1971</td>
<td>$100,793</td>
<td>$641,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Hanger at Don Scott Field (Loan)</td>
<td>1973</td>
<td>29,999</td>
<td>29,999 N/A</td>
<td></td>
</tr>
<tr>
<td>Hanger addition at Don Scott Field (Loan)</td>
<td>1978</td>
<td>74,738</td>
<td>74,738 N/A</td>
<td></td>
</tr>
<tr>
<td>54.3 acres of land on Harrisburg Pike</td>
<td>1966</td>
<td>$190,000</td>
<td>$203,000</td>
<td>06/89</td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>1962</td>
<td>$160,265</td>
<td>$2,896,000</td>
<td>06/89</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>1972</td>
<td>$544,398</td>
<td>$4,384,000</td>
<td>06/89</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>1968</td>
<td>$310,538</td>
<td>$6,855,000</td>
<td>06/89</td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>1971</td>
<td>$265,079</td>
<td>$2,749,000</td>
<td>06/89</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>1986</td>
<td>$2,078,666</td>
<td>$2,880,000</td>
<td>06/89</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>1965</td>
<td>$24,000</td>
<td>$1,080,000</td>
<td>06/89</td>
</tr>
<tr>
<td>8.357 acres of land, 3505 West Granville Road</td>
<td>1968</td>
<td>$17,114</td>
<td>$720,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Undivided one-half interest in building and</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.65 acres at 1375 South Hamilton Road</td>
<td>1986</td>
<td>$95,000</td>
<td>$95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>20.998 acres of land on Shier-Rings Road</td>
<td>1978</td>
<td>$261,848</td>
<td>$1,185,000</td>
<td>08/89</td>
</tr>
<tr>
<td>17.92 acres of land on Ederman Road</td>
<td>1978</td>
<td>$25,157</td>
<td>$225,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>1979</td>
<td>$3,767,261</td>
<td>$6,460,000</td>
<td>02/85</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$11,335,328</td>
<td>$39,704,387</td>
<td></td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Solicitations

Date: September 30, 1989

From: James L. Nichols, Treasurer

To: Board of Trustees, The Ohio State University

During the months of August and September 1989, the University voted nineteen proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Approval to increase authorized common stock shares;
3) Ratification of independent auditors;
4) Approval of a Director Stock Option Plan;
5) Approval of a 1989 Stock Award Plan;
6) Amendment to limit the liability of Directors and Officers;
7) Approval to continue a Stock Option Plan for seasonal employees and increase common shares for said plan;
8) Amendment to classify voting of the Board of Directors and require a 75% affirmative vote for their removal;
9) Allow the Board of Directors to establish voting rights for preferred stock;
10) Approval of the 1989 non-qualified Stock Option Plan;
11) Allow for the issuance of common stock pursuant to certain employment contracts;
12) Approval to change the name of the corporation;
13) Amendment to reduce the number of directors and size of the respective classes of directors;
14) Approval to increase authorized shares for a stock option plan.

Shareholder proposals were as follows:

1) Enact cumulative voting of the Board of Directors;
2) Limit to six years, the term for outside directors.

The University voted for all Management proposals and against the shareholder proposals, which Management also opposed.
The nineteen corporations were:

1) Briggs and Stratton Corporation
2) ConAgra, Incorporated
3) Dean Foods Company
4) Gerber Scientific Incorporated
5) General Mills Incorporated
6) Handleman Company
7) Herman Miller Incorporated
8) H.J. Heinz Company
9) H & R Block, Incorporated
10) International Minerals and Chemical Corporation
11) Medtronic Incorporated
12) Morrison Incorporated
13) Premier Industrial Corporation
14) RPM, Incorporated
15) Skyline Corporation
16) Strata Corporation
17) Tyco Labs Incorporated
18) Universal Corporation
19) Worthington Industries Incorporated
Page 356 is blank
APPENDIX XVII

1989 FARM SCIENCE REVIEW

Presented to the Agricultural Affairs Committee
(See page 312)
The 27th Farm Science Review enjoyed both perfect weather and record attendance. The weather, coupled with late maturing crops across most of the Midwest, assisted in the Farm Science Review, Ohio State's largest, open-air educational activity, setting five new records:

1) largest, 3-day total number of paid admissions - 126,400
2) largest, single-day total paid admissions - 60,300
3) largest, 3-day total number of vehicles parked - 41,262
4) largest, 3-day total buses parked - 292
5) greatest exhibitor square footage - 1.9 million square feet (equal to approximately 43 acres, an increase of 33% over the previous high)

The trend toward a decreasing number of commercial exhibitors over the previous five years was reversed, with 509 commercial entries, including over 5,000 trademarks of services and equipment. This represented a 5% exhibitor increase over 1988 and a 10% increase in square footage of exhibitor space over the 1988 figures. Considering the continuing trend toward decreasing participation at other, similar expositions around the country, and the continuing increase in mergers of agribusinesses, these statistics are even more remarkable.

Farm Science Review, while sponsored principally by the College of Agriculture (including the Ohio Cooperative Extension Service and the Ohio Agricultural Research and Development Center), can be considered a University activity, having active participation by the Colleges of Veterinary Medicine, Human Ecology, and Biological Sciences. All faculty, staff and students, with valid Ohio State identification, are invited to attend at no charge. Shuttle buses run from the College of Agriculture campus to the Farm Science Review throughout each day.

The 1989 Farm Science Review also saw increased participation by various categories of attendees:

1) the number of minorities and women increased
2) the number of non-agribusiness persons increased
3) the number of out-of-state agribusiness persons increased

For example, 3% of those in attendance were from Indiana, 2% from Pennsylvania, 5% from Kentucky, and 1% from West Virginia. The only decrease in a participant category this year was in the number of out-of-country visitors. A similar Canadian farm exposition in western Ontario overlapped the dates of the 1989 Review and this is thought to be the cause for the decrease in Canadian participation.

Work has already begun on the 1990 Review. It is hoped that the outreach educational program, known as the Farm Science Review, will touch a still greater number of people in 1990.
APPENDIX XVIII

PROGRESS REPORT AT THE PIKETON RESEARCH AND EXTENSION CENTER

Presented to the Agricultural Affairs Committee
(See page 312)
The 4.1 million dollar capital funds for the Piketon Research and Extension Center was approved in June 1986 by the Ohio Legislature. Operating funds of 1.5 million dollars were in this biennial budget. The Piketon Research and Extension Center is an unique addition to Ohio State's Ohio Agricultural Research and Development Center and Ohio Cooperative Extension Service. The Center will support programs targeted to Southern and Southeastern Ohio.

Facilities

The new Center will include a 16,456 square foot office, lab, headhouse, and greenhouse building; a 4,784 square foot aquaculture building; a 2,883 square foot farm operations shop; and several site improvements including aquaculture ponds, a 4-acre water reservoir, and research plots on 160 acres of land. Bids were opened on July 30, 1989.

The buildings will be masonry construction with wood siding. Wood will also be emphasized in the entry, lobby, and the multi-purpose room.

Programs

The programs at Piketon will address specific needs of Southern and Southeastern Ohio. The major programs of aquaculture, forestry, agronomy, horticulture, economic development, and water quality and management were developed with input of the local people.

Organization

A coordinator, research assistants or associates, extension assistants or associates, a farm labor support crew, and secretaries will be at the Center. The coordinator will provide overall direction at Piketon and be the contact with the Directors of the Ohio Agricultural Research and Development Center and the Ohio Cooperative Extension Service.

The research and extension programs will be conducted by the Center staff working on specific projects under the direction of Ohio State University faculty members. A portion of the operating funds will be available for special, short-term applied type of projects.

Start Up

Operating funds for the Piketon Research and Extension Center were received July 1, 1989. Office space has been leased in the Scioto Valley School Administration Building in Piketon, Ohio. Dave Rausch is in the office and will assist in the monitoring of construction and with the water quality and management program. The hiring of a site coordinator and adding research/extension assistants or associates in forestry, economic development, and horticulture are proceeding. Additional staff will be hired as facilities become available and projects are approved.

Some water aquifer projects are already started on leased bottom land near Piketon. The initial work has been on historical record studies. The land will be set up for monitoring and on-site projects will be started in 1990.
PIKETON RESEARCH EXTENSION CENTER

VICINITY MAP
NOT TO SCALE
Page 362 is blank
APPENDIX XIX

THE OHIO STATE UNIVERSITY CAMPAIGN

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees October 6, 1989
(See page 312)
# THE OHIO STATE UNIVERSITY
## OFFICE OF UNIVERSITY DEVELOPMENT
### TOTAL UNIVERSITY PRIVATE GIFT SUPPORT

**July-June**  
1987-88 compared to 1988-89

**GIFT RECEIPTS BY DONOR TYPE**

<table>
<thead>
<tr>
<th>Donor Type</th>
<th>1987-88 Donors</th>
<th>1988-89 Donors</th>
<th>% Change</th>
<th>1987-88 Dollars</th>
<th>1988-89 Dollars</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>51,542</td>
<td>49,043</td>
<td>(5)</td>
<td>$10,766,495</td>
<td>$15,818,050</td>
<td>47</td>
</tr>
<tr>
<td>Non-Alumni</td>
<td>25,408</td>
<td>25,289</td>
<td>1</td>
<td>7,843,080</td>
<td>6,645,769</td>
<td>(16)</td>
</tr>
<tr>
<td>Corporations</td>
<td>2,420</td>
<td>2,774</td>
<td>15</td>
<td>24,101,224</td>
<td>27,498,150</td>
<td>14</td>
</tr>
<tr>
<td>Corporate Foundations</td>
<td>279</td>
<td>288</td>
<td>4</td>
<td>1,945,716</td>
<td>2,282,256</td>
<td>18</td>
</tr>
<tr>
<td>Private Foundations</td>
<td>161</td>
<td>170</td>
<td>6</td>
<td>11,009,701</td>
<td>5,956,628</td>
<td>(46)</td>
</tr>
<tr>
<td>Other</td>
<td>1,233</td>
<td>1,292</td>
<td>5</td>
<td>8,240,989</td>
<td>10,375,779</td>
<td>26</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>81,043</strong></td>
<td><strong>78,856</strong></td>
<td>(3)</td>
<td><strong>$63,907,205</strong></td>
<td><strong>$68,576,632</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>
The Ohio State University Campaign
Progress Report
@ June 30, 1989

<table>
<thead>
<tr>
<th>*Campaign Exectancies</th>
<th>Current Year Campaign Receipts (Jul 88 - June 89)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1988</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>$71,442,219</td>
<td>$15,818,050</td>
<td>$38,283,424</td>
<td>$125,543,693</td>
<td>$122,500,000</td>
</tr>
<tr>
<td>Friends</td>
<td>36,801,753</td>
<td>6,645,769</td>
<td>28,643,850</td>
<td>72,091,372</td>
<td>70,000,000</td>
</tr>
<tr>
<td>**Corporations</td>
<td>13,800,664</td>
<td>40,156,185</td>
<td>103,403,568</td>
<td>157,360,417</td>
<td>122,500,000</td>
</tr>
<tr>
<td>Foundations</td>
<td>2,963,625</td>
<td>5,956,628</td>
<td>19,935,229</td>
<td>28,855,482</td>
<td>35,000,000</td>
</tr>
<tr>
<td>Totals</td>
<td>$125,008,261</td>
<td>$68,576,632</td>
<td>$190,266,071</td>
<td>$383,850,964</td>
<td>$350,000,000</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
### Gift Receipts by Donor Type

#### July-August 1988-89 compared to 1989-90

<table>
<thead>
<tr>
<th>Type of Donor</th>
<th>Donors July through August 1988-89</th>
<th>Donors July through August 1989-90</th>
<th>% Change</th>
<th>Dollars July through August 1988-89</th>
<th>Dollars July through August 1989-90</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alumni</strong></td>
<td>7,133</td>
<td>5,085</td>
<td>(29)</td>
<td>$3,695,167</td>
<td>$804,756</td>
<td>(79)</td>
</tr>
<tr>
<td><strong>Non-Alumni</strong></td>
<td>5,661</td>
<td>4,182</td>
<td>(27)</td>
<td>736,265</td>
<td>390,245</td>
<td>(47)</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>429</td>
<td>495</td>
<td>16</td>
<td>908,054</td>
<td>1,628,118</td>
<td>80</td>
</tr>
<tr>
<td><strong>Corporate Foundations</strong></td>
<td>94</td>
<td>100</td>
<td>7</td>
<td>158,577</td>
<td>269,270</td>
<td>71</td>
</tr>
<tr>
<td><strong>Private Foundations</strong></td>
<td>30</td>
<td>29</td>
<td>(4)</td>
<td>452,042</td>
<td>351,404</td>
<td>(23)</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td>182</td>
<td>142</td>
<td>22</td>
<td>1,003,524</td>
<td>692,017</td>
<td>(31)</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>13,529</td>
<td>10,033</td>
<td>(26)</td>
<td>$6,953,729</td>
<td>$4,135,810</td>
<td>(41)</td>
</tr>
</tbody>
</table>
The Ohio State University Campaign
Progress Report
@ August 31, 1989

<table>
<thead>
<tr>
<th></th>
<th>*Campaign Exectancies</th>
<th>Current Year Campaign Receipts (Jul 88-Aug 89)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1989</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>$76,358,162</td>
<td>$804,756</td>
<td>$54,101,474</td>
<td>$131,264,392</td>
<td>$122,500,000</td>
<td>107</td>
</tr>
<tr>
<td>Friends</td>
<td>45,150,811</td>
<td>390,245</td>
<td>35,289,619</td>
<td>80,830,675</td>
<td>70,000,000</td>
<td>116</td>
</tr>
<tr>
<td>**Corporations</td>
<td>13,782,765</td>
<td>2,589,405</td>
<td>143,559,753</td>
<td>159,931,923</td>
<td>122,500,000</td>
<td>131</td>
</tr>
<tr>
<td>Foundations</td>
<td>2,957,625</td>
<td>351,404</td>
<td>25,891,187</td>
<td>29,200,886</td>
<td>35,000,000</td>
<td>84</td>
</tr>
<tr>
<td>Totals</td>
<td>$138,249,363</td>
<td>$4,135,810</td>
<td>$258,842,703</td>
<td>$401,227,876</td>
<td>$350,000,000</td>
<td>115</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
APPENDIX XX

COFFEY ROAD INTRAMURAL FIELDS

Adopted by the Board of Trustees October 6, 1989
(See page 338)
APPENDIX XXI

141 WEST 11TH AVENUE
COLUMBUS, OHIO

Adopted by the Board of Trustees October 6, 1989
(See page 340)
Proposed Purchase of Property at 141 West Eleventh Avenue

Office of Business and Administration
October 6, 1989
The Board of Trustees met at its regular monthly meeting on Friday, November 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**          **          **

Minutes of the last meeting were approved.

**          **          **
November 3, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on November 3, 1989, at 11:30 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Alex Shumate, and Laurel A. Davis.

--0--

ENROLLMENT REPORT - AUTUMN QUARTER 1989

Mr. Ihrig:

We have with us today Jim Mager, Director of Admissions, and Gene Schuster, the University Registrar, to try and keep me in line to make sure I give you the real story on this. The overall enrollment for Autumn Quarter 1989 is 58,994 students for the University. That represents a decrease from last year of 1.4 percent, as well as a decrease from our projected target for the year of 2.1 percent. Actually, this year in our targets we were down in all categories except for the category of continuing students. There was an increase over the target there due to retention as well as the continual upper divisions within the University. Those represents the ranks of sophomore, junior and senior.

The decrease occurred on the Columbus campus. The regional campuses were up, and ATI continued on its recovery from three to four years ago. The real decrease from last year relates to the entering freshmen. That was a planned decrease. If you will remember, our long-range plan for entering freshmen at Ohio State is 6,500 a year to keep within the enrollment limits set by the State of Ohio.

Last year because of selective admissions and trying to understand the selective admissions process, we reached 7,100, which is far over our target. It put a real strain on the University to handle that many incoming freshmen. This year our target was 6,300 to help compensate for that high enrollment last year of freshmen, and to get us back into the 6,500 on a continuing basis.

Again this year, the quality of the freshman applications and the quality of those admitted had gone up, but the actual retention of those who were actually admitted to enrollment, those percentages decreased on us this year unexpectedly. Last year they went up on us unexpectedly, so we are still learning how to deal with a selective admissions environment and this is going to take us some time. This is like trying to dock and ocean liner and making sure we don't dock it half a mile off the course or run into the beach. We are still in that learning process and I know it will improve over time.

Now, the other factor we have going, when looking at the overall enrollment, is that higher education in Ohio had a 3.5 percent increase. Universities in Ohio only had a 1.6 percent increase as reported by the Board of Regents. A much higher gross, over 5 percent, was reported in the two-year technical colleges, community colleges, and the regional campuses throughout Ohio. OSU Columbus, had a decrease of 1.4 percent. Those trends are going to be interesting to watch over the next decade, especially since we know the high school graduating classes to come over the next 18 years have a projected decrease of 12.5 percent in graduates. Now, being the flagship institution, the demand will still be to enter Ohio State University. Also countering that decrease in the number of expected high school graduates, is an increase in the college going rate, which increased from 40 percent last year to over 46 percent this year. And, it is estimated to go up again to 48 percent next year.
Mr. Ihrig: (contd)

So more and more students are interested in going on to higher education in Ohio and that is very good news. That will be happening in the face of a declining high school graduating class. A lot of first time higher education students, however, will tend to go toward the community colleges and the technical colleges, and those are going to be the growth areas as we see more and more students going on to higher education. Whereas for this University, which is capped -- and we have no interest in growing -- our challenge will be to make sure we have the resources -- since our resources are tied to enrollment -- to continue the quality of the flagship institution in Ohio. I think that is going to be our challenge.

In addition to those issues and with the first quarter freshman issue, we had a slight decrease in the retention of our freshman class -- and it was about a 1 percent decrease -- and I think that can be attributed to having a very large class of 7,100 last year. That is another reason why we are trying to keep the freshman class at a very even rate of 6,500 per year.

Enrollments in the graduate area of the University are down 1.3 percent. This is due to a reduction in part-time graduate students, whereas full-time graduate students are up this year. On our graduate decrease, it was primarily due to the part-time students being down. A heavy part of this was in the College of Education where they are changing the way they offer some of their part-time classes. They changed some hours of the day and made the classes go later, and they have reduced some of their off campus courses as well. That had an impact in reducing the number of students in that area. That was where a large majority occurred.

In some of the other areas there were some planned reductions. Again, the graduate departments will admit graduate students based on how many students were accepted the prior year and how many spaces they have available. So, if they had a high number the previous year, they will have some planned reductions the following year.

We are not completely sure why Continuing Education and the part-time students had a real decrease this year. We think part of this is due to the selective admissions impact at Ohio State. Continuing Education classes are not affected by selective admission. We think some students may have stayed away and not come in because of the publicity of selective admissions. I think that is more of a public relations problem.

Another problem is that the federal government has restricted financial aid for part-time continuing education students much more than they have in the past. So, we are just trying to understand what is really happening in those areas.

The domestic and foreign applications for our graduate programs are up again, and the quality of the applicants is up. The fellowship applicants have a significant increase with top quality students being involved. So, the good news in the graduate area is that we are having a real increase in the quality of the student. In addition, full-time students are taking a larger load of graduate studies. Last year we had a significant drop off of graduate course loads and that was tied into the tax issue of whether the graduate stipends were taxed or not. That has cleared up and we have seen recovery of that, which is good news both for the students and for our subsidies.
ENROLLMENT REPORT - AUTUMN QUARTER 1989 (contd)

Mr. Ihrig: (contd)

The professional colleges are maintaining basically on target. The reductions there are planned reductions in the College of Medicine -- over five years they are taking a 10 percent reduction in the size of the entering classes. Dentistry has had a planned reduction, going from an entering class of 110 down to 100. We see no significant changes there.

We are not over-enrolled at Ohio State this year, and it is the first time I have been able to say that. We have always been over the 40,000 state mandated limit. Our preliminary data indicate we will be 39,727. I would prefer to be right at 40,000 for obvious reasons, but at this point we are slightly below it. That is primarily because of the number of credit hours in some of the areas that had been decreasing in the past and have now turned around. Agriculture appears to have bottomed out in the number of decreases and turned around. Allied Medicine, Dental Hygiene had increases. In Nursing, the number of credit hours turned around from a low last year. We are also getting credit for the increase in our minority student enrollments above Autumn Quarter 1986. So the efforts the University has made in continuing to increase our minority and black student enrollments has had a significant impact not only in the diversity on campus, but also in keeping us within the state mandated enrollment limit. Overall, black enrollments are up 6.2 percent for the year, and entering black first quarter freshmen are up 12.7 percent -- from 482 to 543.

I would be glad to try to respond to further questions you might have regarding the data on this report.

Mr. Teaford:

I have a couple of questions, Mr. Chairman. Sixty five hundred times four is only 26,000 students that we are apparently admitting as first quarter freshmen in the fall, and we have got 40,000 undergraduates?

Mr. Ihrig:

There are also, in addition to the admissions that we have in the Winter, Spring and Summer Quarters, students admitted at the regional campuses and they can move from campus to campus. In addition to that, we bring in and we plan for large numbers of transfer students from other institutions outside the University. For Autumn Quarter the transfers were targeted at around 2,100. So, those activities go on all four quarters of the year.

Mr. Teaford:

Do we have a sense of how many first quarter freshmen there are in the other three quarters?

Mr. Ihrig:

I think Jim Mager can answer that for you.
ENROLLMENT REPORT - AUTUMN QUARTER 1989 (contd)

Mr. Mager:

Yes, the Winter Quarter will bring in about 700 new freshmen, the Spring Quarter will have between 200 to 300, and for Summer Quarter it has been between 300 to 400 freshmen.

Mr. Teaford:

One other thing that has been suggested to me as to why there are less part-time and more full-time graduate students, is that the fear of tuition increases has now caused people to say they want to get out of here faster.

President Jennings:

I hope it is not for fear, but I would hope graduate students would want to get out of here faster. Because one of the major problems in graduate education is and has been graduate students taking way too long to graduate, particularly at the Ph.D. level. I think the faculty should do everything they can to encourage graduate students to finish more rapidly than they have in the past.

Mrs. Bowser:

I don't understand the drop in Continuing Education?

Mr. Ihrig:

We don't fully understand that yet, Mrs. Bowser. I think that is a concern that we have. People in the Provost's office, Student Affairs' Office, and my office are looking at that and trying to understand it. I am concerned about it for the future.

President Jennings:

Up to this point, we have been ahead of the national trends when it comes to graduate education. Nationally it has been going down and we haven't. This is our first look at it. Getting the graduate students out faster would be appropriate. I might add that some of the state-wide restrictions on our graduate programs hurt us -- the limits of 200 hours where a subsidy will be paid is an artificially low limit associated with the Board of Regents and the state. We are working to correct that, as well.

I think the key though is that when we say we are down, remember that in terms of institutional policy, we are only down or up in any one period because of reversals that we didn't pick up, like the Continuing Education or like the graduate program or like the unpredictability of the yield of selective admissions. The basic institutional policy right now is to stay the same size.

(See Appendix XXII for Highlights of Fourteenth Day Enrollment for the Autumn Quarter 1989, page 425.)
At the outset of the Board meeting, Dr. William J. Studer, Director of University Libraries, gave an overhead presentation on The Ohio State University Libraries. (See Appendix XXIII for overhead presentation, page 447.)

---0---

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Executive Committee of the Hospitals Board met on Thursday, October 26. We received reports from the medical staff, and reviewed and endorsed the recommendations for medical staff appointments.

Mr. Allen presented a summary of patient activity and the Hospitals' financial performance during the month of September. The number of admissions in the first quarter of this fiscal year exceeded both last year's actual and this year's budget. That is the good news. We believe that increasing admissions will be the key to the Hospitals' success in the future. We hope to accomplish this through continued efforts to cultivate physician referrals and to provide staffing and services high in patient satisfaction. I say that is the good news because, indeed, the revenues in the period were below budget, principally because of shorter patient stays. There also seems to be problems now in getting enough medical admissions. In the past, budgets we have been short in surgical admissions, now it is medical.

In response to our request, Mr. Fraley discussed most-favorable and least-favorable scenarios related to the Hospitals' 1989-90 Capital Budget and Five-Year Capital Plan. I would describe these to be, at best, bare bones, and the five-year capital plan is equally short. Although the Hospitals' ongoing commitments, long-term and operational priorities will remain constant, we explored alternative methods of funding in the event that actual revenues either exceed or fall short of expectations. Some of the factors that will impact on our financial position will be federal budget cuts -- one of which may be retroactive to 1985! In other words, they are going to take away money they have given us for the last four or five years. Other factors include state funding, success of our development efforts, and the ability of the Cancer Institute to repay research equipment expenses. Something which I am not at all optimistic about, personally. Although, I point out I am less optimistic then the Hospitals staff. It seems probable to me that it will be difficult for us to succeed in all of those areas, and, therefore, we looked at the possibility of the Hospitals' borrowing. The good news there is that our Hospitals have perhaps one of the lowest debts of any major hospital in the United States. By contrast the place up north has a debt probably 10 times ours.

Mrs. Bowser:

They have a new building.

Mr. Teaford:

They have all new buildings. Mr. Fraley reported on current Hospitals Administration projects. Lastly, we received updates on the MedOhio facilities and on medical center development. We will review in-depth information on the Med-Ohio operations at our next meeting on December 7, because they are not up to the budget predictions that we made for this year.
INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as of October 20, 1989, as presented by Mr. Nichols. The value of the endowment was reported as $303.3 million.

Yesterday members of the Investments Committee plus other interested Trustees met to hear reports from our fixed income managers. Based on these, along with last month's equity managers review, the Investments Committee will bring forward recommendations for adjustments in the Endowment investment managers at our December meeting.

That concludes my report, Mr. Chairman.

Mr. Berry:

Any questions?

Mr. Teaford:

I think it is true, isn't it Mr. Chairman, that I have sat on this Board when we have hit the $100, $200, and now $300 million level.

Mr. Berry:

That is true, Mr. Teaford. I started on this Board when we were at $70 million and Dr. Jennings joined us then, and we have it up over $303 million, Ed. Joel, you will hit the half-billion dollar mark.

Mr. Kessler:

Mr. Nichols is predicting, and he says the President agrees with him, that in ten years, by the year 2000, we will be at $1 billion.

Mr. Berry:

Of course, you always have to watch these people that deal with figures!

(See Appendix XXIV for complete text of The Ohio State University Endowment Summary, October 20, 1989, page 469.)

---0---

ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning we heard from Dr. Hermann, from the Office of International Affairs. We currently have 2,800 international students here at Ohio State University. We have 500 undergraduates and we are the fourth largest college in the United States for international students. We have a Study Abroad Program that right now is just being implemented. He made a comparison that we allocate the same amount of money and have the same amount of students as Kenyon College, which is not very
November 3, 1989 meeting, Board of Trustees

ACADEMIC AFFAIRS COMMITTEE (contd)

Ms. Casto: (contd)

...good. So we hope to increase that program, hopefully, with some kind of exchange program where we would have foreign students come here and we in turn go to the foreign countries. Of course, the emphasis was upon the fact that we are now in such a world market that it is important for us to have that knowledge at Ohio State University.

--0--

DEGREES AND CERTIFICATES - AUTUMN QUARTER COMMENCEMENT
Resolution No. 90-42

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Autumn Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on December 8, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS
Resolution No. 90-43

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the October 6, 1989 meeting of the Board, including the following Appointments, Appointment of Chairpersons of Departments and Director of School, Leaves of Absence Without Salary, Leave Without Salary—Continuation, and Emeritus Title, as detailed in the University Budget be approved, and the Medical Staff Appointments and Reappointments approved September 28, 1989, by the Hospitals Board be ratified.
PERSONNEL ACTIONS (contd)

Appointments

Name: LASZLO ADLER  
Title: Professor (Taine G. McDougal Professorship in Engineering)  
College: Engineering  
Effective: October 1, 1989  
Salary: $78,320.00  
Present Position: Professor, Department of Welding Engineering

Name: DAVID T. MUCCI  
Title: Director of the Ohio Unions  
Office: Student Affairs  
Effective: November 1, 1989  
Salary: $48,000.00  
Present Position: Acting Director of the Ohio Unions

Appointment of Chairpersons of Departments and Director of School

October 1, 1989 through September 30, 1990

- Food Science and Technology: Michael E. Mangino*
- School of Public Policy and Management: Henry L. Hunker*

January 1, 1990 through June 30, 1993

- Preventive Medicine: Randall E. Harris

July 1, 1990 through June 30, 1994

- Family Medicine: John A. Lombardo

*Acting Chairperson/Director

Leaves of Absence Without Salary

ANDREW D. BAILEY, Professor, Academic Faculty of Accounting and Management Information Systems, effective January 1, 1990, through September 30, 1990, to accept a faculty position in the Department of Accounting at the University of Arizona.

YAIR TAUMAN, Professor, Department of Economics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a visiting professorship at Stony Brook.

MARTIN F. KENNEY, Assistant Professor, OARDC and Department of Agricultural Economics and Rural Sociology, effective October 1, 1989, through June 30, 1990, to accept a position in the Department of Applied Behavioral Sciences at the University of California-Davis, Davis, CA.

Leave of Absence Without Salary--Continuation

BRUCE S. GROWICK, Associate Professor, Department of Educational Services and Research, effective Winter Quarter and Spring Quarter 1990, to continue as Director of the Rehabilitation Division of the Industrial Commission of Ohio.
Emeritus Title

JAMES B. RANDELS, Department of Computer and Information Science, with the title Associate Professor Emeritus, effective November 1, 1989.

Medical Staff--Appointments

CYNTHIA W. BRONER, M.D., Attending Staff, Pediatrics
MICHAEL E. MINER, M.D., Attending Staff, Division of Neurosurgery
MARIA NINI PLURAD, M.D., Limited Staff, Anesthesiology
ELLEN M. ROSENBERG, M.D., Attending Staff, Pediatrics
ROBERT SANTIAGO, M.D., Attending Staff, Preventive Medicine
WILEY G. WOODARD, M.D., Courtesy Staff, Obstetrics and Gynecology

Medical Staff--Reappointments

CHRISTOPHER L. DEMAS, M.D., transfer from Limited to Attending Staff, Family Medicine
JANE F. DONAT, M.D., Attending Staff, Pediatrics
TIMOTHY J. FALLON, M.D., Courtesy Staff, Physical Medicine and Rehabilitation
RODERICK L. FULLER, D.P.M., Courtesy Staff, Division of Orthopedic Surgery
WILLIAM B. KELLY, M.D., Limited Staff, transfer to Anesthesiology
MARY K. KUZMA, M.D., transfer from Limited to Courtesy Staff, Pediatrics
ROBERT E. LAUER, D.D.S., Attending Staff, Division of Oral and Maxillofacial Surgery
JUDITH R. LUBBERS, M.D., transfer from Limited to Courtesy Staff, Family Medicine
MARGARET M. OLSOY, M.D., transfer from Limited to Courtesy Staff, Pediatrics
MICHAEL C. OVERDAHL, M.D., transfer from Limited to Attending Staff, Division of General Medicine
DANA J. SCHULTZ, M.D., Courtesy Staff, Pediatrics
KIRK V. SHEPARD, M.D., Courtesy Staff, Division of General Medicine
RICHARD C. STEWART, D.P.M., Courtesy Staff, Division of Orthopedic Surgery
RENEE S. TAYLOR, M.D., Courtesy Staff, Pediatrics
JOHN N. TETERIS, M.D., Limited Staff, Obstetrics and Gynecology
MARK D. WEWERS, M.D., Attending Staff, Division of Pulmonary Medicine
PERSONNEL ACTIONS (contd)

Medical Staff--Reappointments (contd)

JOHN J. WHELLER, M.D., Attending Staff, Pediatrics

THOMAS E. WILLIAMS, M.D., Courtesy Staff, Division of Thoracic and Cardiovascular Surgery

JOSEPH P. YU, M.D., Limited Staff, Radiology

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 90-44

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Richard S. Jaeckle

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 25, 1989, of Richard S. Jaeckle, Assistant Professor of Psychiatry.

Professor Jaeckle was born November 24, 1953, in Madison, Wisconsin. He received his B.S. degree (with honors) in physiological psychology and biochemistry from the University of Wisconsin in 1973, and his M.D. degree from Vanderbuilt Medical School in 1982. Professor Jaeckle served his internship at the University of Michigan and received his psychiatric residency training at the University of Iowa, where he also did a fellowship in Neuroendocrine Molecular Genetics (1985-87).

Dr. Jaeckle was appointed Assistant Professor of Psychiatry at the University of Wisconsin from 1987-1988 before he was recruited to The Ohio State University in the summer of 1988. He served as director of the psychoneuroendocrinology program in the Department of Psychiatry at The Ohio State University, and taught medical students and psychiatric residents a variety of biological psychiatry and neuroscience topics. He also served as a consultant to the V.A. Outpatient Clinic in Columbus.

Dr. Jaeckle was a brilliant young scientist who was conducting research on some very important neural mechanisms in depressive disorders. He was principle investigator on a five-year NIMH grant titled "Peptide Regulation of the HPA Axis in Major Depression" and co-investigator on another NIMH grant "Corticotropin Releasing Hormone in Major Depression." He was extremely knowledgeable in the field of psychiatric neuroscience, and always had many new ideas for further research to discover the etiology and treatment of serious depression.
RESOLUTIONS IN MEMORIAM (contd)

Richard S. Jaeckle (contd)

On behalf of the University Community, the Board of Trustees expresses to the family of Professor Jaeckle its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his friends and associates have sustained.

Geneva H. Nolan

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 17, 1989, of Geneva H. Nolan, Instructor Emeritus in the Cooperative Extension Service.

Mrs. Nolan was born September 1, 1905, in Walton, West Virginia. She received her B.S. in Home Economics Education from Ohio University in 1935; then spent three years teaching Vocational Home Economics in Morgan County.

Mrs. Nolan began her Extension experience when she joined the faculty at The Ohio State University in 1938 as a County Extension Agent, Home Economics in Meigs County. Mrs. Nolan continued in this position until her retirement in 1963.

The National Home Demonstration Agents Association presented Mrs. Nolan the Distinguished Service Award in October 1955 for outstanding work in the delivery of home economics programs. She was a member of the County Agents Association and attended many Extension conferences throughout her association with the Ohio Cooperative Extension Service.

Mrs. Nolan's contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her coworkers and many thousands of Ohio citizens throughout the length and breadth of Meigs County.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Mrs. Nolan. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Neal A. Smith

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 15, 1989, of Neal A. Smith, Professor Emeritus in the Department of Electrical Engineering.

Professor Smith was born on February 10, 1919, in Norwich, Ohio. He received his Bachelor of Electrical Engineering degree in 1941 and the Master of Science in 1947; both degrees were from The Ohio State University.

Prior to joining the faculty of The Ohio State University in 1947, Professor Smith was employed as Assistant Chief Engineer of the Federal Machine and Welder Company from 1941 to 1944, and served in the U.S. Navy from 1944 to 1946.

Professor Smith's career spanning 37 years of service to the Department of Electrical Engineering was characterized by many and varied contributions to the growth and success of the Department. A dedicated and inspirational teacher, he nearly single-handedly conducted its
program of instruction in power systems engineering for a number of years. At a time when some programs of this type were dying throughout the country, Professor Smith maintained the power systems program as a strong and vital one and continued to develop and invigorate it. His judgement that instruction in power systems engineering should not be subjugated to new areas was proved totally correct by the later resurgence of such programs throughout the country. The Department of Electrical Engineering has had an outstanding tradition of excellent instruction in power systems engineering since the late 1880's, and Professor Smith was an extremely important part of the maintenance of that tradition for nearly four decades.

He conducted research, served as a consultant to industry, and provided service to the professional organizations relevant to electrical engineering. Through his contacts in industry, he successfully established the Ohio Electric Utility Institute Fellowship Program at Ohio State.

A registered professional engineer, he also served as a consultant and expert witness concerning electrical fires and safety, electrical shock, and high voltage system design and testing throughout his career.

Professor Smith was a life member of the Institute of Electrical and Electronics Engineers and its Power Engineering and General Applications Societies. He was also a member of the American Society of Engineering Education, and other professional, technical, and honorary organizations.

A very loyal supporter of the University, Professor Smith was a member of the President's Club and the President's Club Council.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Shumate:

The Student Affairs Committee received an excellent report from the Academic Support Systems for Student Athletes. Highlights of the report -- the report was presented by Russ Spillman, Vice Provost for Student Affairs; Jim Jones, Athletic Director; Larry Romanoff, Lead Academic Counselor; and, also, Kate Riffee and John Macko of the Athletic Academic Counseling Office.

Ohio State University was the second institution in the country to hire an academic counselor. Our thrust and goal is truly on the area of receiving a degree and also in receiving an education here at the University. Our focus is not just on the number of hours that our student-athletes take each quarter, but it is also a focus upon the hours in degree granting programs which is another leading component of the excellent program that we have here.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Shumate: (contd)

I think we can be very proud that the requirements of our academic eligibility program are the most stringent in the country. Not just in the Big 10, but in the country we have the highest standards of academic eligibility for our student-athletes. It is truly a very positive program of academics here at The Ohio State University and one as Trustees, I think we should assist this office in telling the good news story. We all hear about the leadership that we take on the sports programs, on the football fields, and on the various courts, but we can also be proud of this program.

Two areas of concern, if you will, that were mentioned by Mr. Romanoff were: 1) more space is needed for the study table program; and 2) if more courses could be offered during summer school periods, a time when our student-athletes could take advantage of greater course loads. Are there any questions? If not we will move, Mr. Chairman, to the student leaders' reports.

Mr. Luke Evans:

Good afternoon. Mr. Chairman, President Jennings, and Members of the Board, first I will report briefly on a few of CGS's current programming activities, and then I would like to follow-up by discussing, in some depth, what seems to be a growing concern among graduate students, the image of graduate education and graduate students among many of Ohio State's administrators, the State Legislator, and Ohio's general public, and how this image can impact graduate education and the quality of life of its students.

As for activities, Benetta Lucius, our Vice President, has just issued the call for papers for the 1990 Graduate Research Forum. Now she is beginning to work on the recruitment of approximately 100 graduate faculty, both within and outside the Ohio State academic community, to function as judges for this event of growing prestige. Last year's applicants increased 25% over that of the previous year. We expect a similar increase this year, especially since we issued the call for papers two months earlier. Six thousand dollars will be awarded to 20 well-deserving Ohio State graduate students in recognition of their outstanding research. Each year, as a result of our participation in the National Association of Graduate/Professional Students, we receive inquiries from other graduate schools around the country who wish to use our event as a model for their competitions. This year's forum will take place Saturday, April 21, 1990.

Beginning December 1, graduate students at Ohio State will be able to search for grant opportunities from the awards data base maintained by Stanford University. This data base provides grant opportunities almost exclusively to graduate students, thus affording them additional opportunities to fund research that might not otherwise be available. As an aside, I learned that this data base also contains opportunities for research for undergraduate students. So, perhaps, maybe our honors' undergraduate students who are writing an undergraduate thesis may be able to take advantage of this as well. This service is a joint effort between CGS, the Office of Research and Graduate Studies, and Sponsored Programs Development. This new service is being very well received by graduate students as a positive step to enhance the quality of graduate education at Ohio State.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

Finally, as far as activities are concerned we are working with the Center for Teaching Excellence on the Autumn TA Forum entitled, "When the Spotlight's on You, Presenting Yourself in the Classroom." As with last year's forum, the central purpose is to enhance the quality of undergraduate instruction by TA's and to give TA's, the professors of tomorrow, opportunities to improve their teaching skills. This event will be held this Wednesday, November 8.

Now on to the image of graduate education in Ohio. Some of you may have been following a series of articles that have been appearing in the Lantern that concern the Jones Tower resident's displeasure with the 7.3 percent rent increase imposed last July 1. This displeasure is a combination of several events taking place over Winter, Spring, and Summer Quarters.

During the last academic year the residence received various memos to the effect announcing changes in services as a result of cost-containment measures. Much to their surprise, another memo in April announced the 7.3 percent rent increase for the coming academic year citing increased operating costs and inflation as the reasons. This prompted many graduate students to inquire further into this matter by obtaining copies of the proposed budget. They noticed that projected operating expenses including adjustments for inflation were slightly lower than that of the previous year. Which seemed to correspond with cost-containment efforts described in previous memos. But they also noticed a new line-item for University reallocation. The residents are arguing that the rent increase was not a result of increased operating costs and inflation, but rather a consequence of the University's cost-containment reallocation program. While they have no complaint about the cost-containment portion, they do object to paying monies for reallocation since these funds go outside Residence and Dining to other areas of the University. Their belief is that cost-containment benefits should remain within Residence and Dining and accrue to those who use R & D services -- student residents. Reallocation, they claim, constitutes a profit and accrues to the benefit of all University students. Accordingly, reallocation has the unintended effect of placing a disproportionate share of the University's burden to fund its higher priority needs on students living residence halls. If this argument has some merit, could this affect accessibility to graduate education? Accessibility to higher education is one of the guiding principles of land-grant institutions. Defining accessibility, it would seem, does not include tuition alone. It would also include room and board, health insurance, and so on. So, what role does graduate housing play in accessibility to graduate education?

New graduate students generally arrive on campus under special circumstances. An out-of-town single student, for example, usually arrives without any established social structure and full employment. This generally means that this student is not likely to be able to afford an apartment until he or she has had the opportunity to make friends for roommate purposes. We would expect single students from the local area to have an established social structure and thus some opportunity to find a roommate to share apartment rent. Married couples can usually move directly into apartments, with the possible exception of international couples who may desire married housing for safety reasons until they get to know the area better. Graduate housing is especially important to those coming from out of town so that they can get settled in the shortest amount of time and begin their academic work. So the local rental market is, for all practical purposes, not available to many, newly arriving...
Mr. Evans: (contd)

graduate students. They are somewhat vulnerable and dependent upon the availability and reasonable pricing of the University Graduate Housing until they become settled.

Most of the Jones Tower residents are cognizant that administrators in higher education nation-wide are under tremendous financial pressure. Universities brutally compete with each other to attract top faculty, often by offering them salaries far in excess of the inflation rate. Universities spend large sums of money to attract the best students to the campuses. So, when faced with the pressures from the public to keep tuition low and a State Legislature reluctant to increase taxes for education, together in a brutally competitive environment in higher education, one can certainly see the logic of a cost-containment reallocation program as an operative to provide this fiscal flexibility required to enhance the quality of this institution.

The Jones Tower situation, as an example, is indicative of a much larger problem and that is the poor support for higher education among the general public of Ohio. Primary and secondary education have the highest priority, followed by undergraduate education, with virtually none remaining for graduate education. Support for graduate students in the form of graduate associateships appears more to support undergraduate instruction, not graduate education. Evidence of this lack of support was revealed when the State Legislature placed a cap on undergraduate, but not graduate tuition. The fact of the matter is that all levels of education are important to Ohio.

More and more graduate education is necessary to assume leadership goals in society. And contrary to popular belief, those who attend graduate school are not all from the affluent classes. Over 60 percent of all Ph.D.'s from Ohio State come from families who are first-time college graduates, and this is from both sides of the family. This means that the majority of Ohio State's Ph.D.'s are from working and middle-class backgrounds which sounds to me like Ohio State is living up to its land-grant mission of providing access from many of the general population. It is important that the people of Ohio move from the 20th Century into the 21st Century in recognizing the importance of strong budgeted education to the State. Not to do so may mean that Ohio's brightest, who are likely to be from all class backgrounds, will go elsewhere for their graduate education and perhaps stay elsewhere once they have graduated.

Graduate education needs the support of the general public if this University is to grow in quality, increase the accessibility for all, especially women, minorities and single parents, and to provide sound leadership for Ohio today and in the future.

Mr. Shumate:

Thank you, Mr. Evans. Are there any questions?

Mr. Teaford:

I just want to ask one question. Is that accurate that there is a reallocation out of dormitories and in to --
President Jennings:

Reallocation has been going on now for several years, out of all of the units in the institution. They have been coming out of the various units of the institution. There is no question that there is a systematic reallocation from the auxiliary enterprises to the academic enterprises. This has been going on for several years. The dormitories are paying to support the academic enterprise of this institution, as I think it should. One of the interesting things we will discuss next month, are graduate student stipends. You will note, Luke, that part of the graduate student stipends increases will come from the reallocations of this institution, because the State doesn't support them. That is a fairly narrow view.

I might ask, Luke, how many graduate students also have applied for application to the Board of Trustees for this upcoming year?

Mr. Evans:

I do not have those numbers.

Ms. Davis:

If I might provide -- I would like to ask you to remain here at the front. I have several questions and comments that Sophia and I have put together. As we understand, there were 13 applicants total from the student body of 55,000 plus; 10 of which were undergraduate, 3 of which then would be either graduate or professional students.

Mr. Teaford:

After all of the noise about wanting Student Trustees, there is obviously no interest on this campus in Student Trustees at all, if that was all that applied.

Ms. Davis:

Needless to say, Sophia and I are concerned and I would just -- I will ask my questions and give my comments after Bart has reported.

Mr. Evans:

May I comment on that?

Ms. Davis:

Will you please.

Mr. Evans:

I don't think it is a lack of interest. I think it was a matter of timing, at least as far as graduate students were concerned. When we established the dates for the Board of Trustees process for this year, it was just after our monthly meeting on October 1. We have our next monthly meeting this Sunday. We were a little bit late in getting our Graduate Voice out, which will be out in the next couple days. We do not have the resources to notify 10,500 graduate students and we relied on the three display
November 3, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

ads that were placed in the Lantern advertising the position. I think that this is probably a pretty weak approach and --

Mr. Teaford:

I saw all three ads myself.

President Jennings:

I did, too.

Mr. Shumate:

Are there any other questions of Luke? The next report, Mr. Chairman, will be from Bart Deems who is the Vice President of the Undergraduate Student Government.

Mr. Deems:

Members of the Board, President Jennings, distinguished guests, this is the first time I have had the privilege to address this body. Mr. Straub is not here today, because he is at a meeting on public safety and he wanted you to know that. Before I get to the Student Trustee issue, I would like to start off by covering some things that have been going on in undergraduate student government.

Once a month we have a joint meeting where we try to get all the bodies of student government together from the cabinet, to the committee members, to the Assembly, to the Administrative Staff, and get everyone working together. As a whole, it seems that a few problems with student government in the past were that each body student government worked on its own and didn’t really get together and utilize the resources of the other bodies. Last night we had a joint session and Laurel gave an opening address regarding Student Trustees and what she did on the Board and how it benefited not only the school, but herself as well. And then David and I proceeded to try and get as many issues as possible from all the students present, so we can say that these issues are important to students on campus. These issues are coming directly from students and I would like to share those issues with you. They are not, by any means, in order of importance. It is kind of a general list and I think that certain things need to be expounded upon and I will try to do so when I can.

The first issue that was brought up concerned the violence on campus. I am sure that you all have heard about the rapes and so forth. The most recent one was on the Oval. Something we feel that could be immediately taken care of is lighting on the Oval. Paulette Fouts, who is our appointee to the Committee on Women and Minorities, came into the office one night after an Assembly meeting a couple of weeks ago and said, “Bart, do me a favor, I would like for you to come outside.” A group of us walked out to the middle of the Oval, it was maybe 8, 9, 10:00 at night, something like that, reasonable study hours I would assume. I thought it was pitch black out there. It really took Paulette to point this out to me because I usually don’t worry about walking around campus by myself. But I think the lighting on the Oval needs to be addressed. It certainly is not satisfactory.
Along those same lines, since the last attack on the Oval, the telephone calls through the Crime Watch Organization have increased by over 400 percent. I don't know if you are all familiar with Crime Watch, but it is an escort service, basically, that tries to make sure that people who need to get home safely, do.

The next issue that was brought up was the student involvement in all University committees. Again, transportation in regards to campus safety. We thought maybe that although the University does an excellent job transporting students around, there are still certain areas, especially around the Oval late at night where people need to get home safely. Traffic and Parking is always an issue. The basic environment of the campus, trash and litter -- the undergraduate students realize that is a responsibility that we create and we are working on a means where we can hopefully alleviate some of that.

Teacher evaluations are still very important to us. Student financial aid -- I spoke to Professor Brown regarding student financial aid. He called me about student financial aid and wanted to know what was going on with that committee, because he had had several students that came up to him after their classes that weren't able to add the class because their student loans had not come in and so forth. I am sure that President Jennings realizes that there is a lot of work going on in this area, but it is not perfected yet and we need to do something about that.

Child Care on campus for those who are attending school as well as trying to raise a family; basketball tickets, a hot issue right now; racism, sexism, and homophobia; alcohol and drug abuse; and theft. Along the racism, sexism, and homophobia issues, the action committee has met twice so far and we are going to have a Winter Quarter conference that will hopefully address as many of those issues as possible. Pom-Pom Day is November 11. The Undergraduate Student Government proposes to pass out in excess of 90,000 pom-pom at the Iowa football game.

And getting back to Laurel's original comments, the Student Trustee applications have all been turned in now. The screening committee will submit a list of ten applicants to the nominating committee and then the nominating committee will submit a list to the Governor. That list to the Governor should be out sometime in mid-December or so.

That concludes my report. Are there any questions?

Mr. Shumate: Any questions of Bart?

Ms. Davis: If I may, I will begin. Sophia Paige, the other Student Trustee, and I spoke last night regarding the response rate to the Student Trustee application process. As I mentioned earlier, there were thirteen applicants in all. And, needless to say, Sophia and I are very concerned about that low response rate. My first question is how do you both feel about the low response and the number of applicants for the position of the Student Trustee?
Mr. Evans:

When I heard we had thirteen applications I was quite concerned, because I think it is important that we present a quality slate to the Governor. I had first proposed an extension of the deadline so that we could perhaps do some more advertising, but the others were opposed to that. They didn't want people applying who were perhaps not sharp in meeting deadlines and who weren't really interested in the position. So, we agreed that if the thirteen were not of good quality that perhaps we would reopen the process and do another push to get good people. I agree with the value of deadlines, but not at the expense of quality.

Mr. Deems:

I would just like to say that first of all that I am shocked and appalled that there were so few. From a personal standpoint, I would be thrilled and I can't imagine that everybody else in this school would not be thrilled to be involved with the process of the University. Regarding the number that we had, it came as a shock to me. I understand that there were 52 applications last year. Is that correct? Which works out to an average of about 26 per position, because there were two persons running. This year we had about 10. I think that the Lantern was ineffective, the poster boards that were put up were ineffective. We need to go out and address the student organizations, the leaders of those student organizations, and basically do a much more comprehensive job of trying to choose those students. We need to take a much more active role. All I can say is that this decision was reached by the three presidents of the student organizations. We were faced with the choice of going ahead with the thirteen applications, or extending the deadline, which realistically I don't think is fair to the students who met the deadline. But then again I see the other side -- we need to accept and submit an adequate list to the Governor. In the future, I will try and emphasize to anybody involved in the student government that this needs to be hand-held and carried, instead of just saying you can be appointed to the Board of Trustees if you apply.

Ms. Davis:

What you both said leads into the next two questions that I have. Sophia and I discussed the possible solutions to this low response rate. One being extending the application period, but I personally don't feel that that is fair to the thirteen who applied on time. Do you think that a more vigorous promotional campaign would affect the response rate? I am not so sure that the three small Lantern ads were enough. I didn't see any poster boards myself. I think, it is a hot issue for the student body to find out about, and the Lantern should have covered it in an article about what the role of the Student Trustee is. Do you agree with me and Sophia that a more vigorous campaign would help?

Mr. Evans:

Yes. I think last year there were several feature articles on this.

Mr. Deems:

Also, from what I understand, last year was the first time for this, so there was extensive media coverage.
Ms. Davis:

We are concerned whether or not thirteen students is going to end up representing a diverse sample of the student population. We believe that the Student Trustee position needs to be representative of the student population. And we are concerned about whether thirteen is going to give us a representative sample.

Mr. Deems:

I see what you are saying. If you don't mind, I would like to use the example -- people say to Dave and I, "only 10 percent of the population voted you in office." We are not a complete representation of student government, and I realize that. If you had 50,000 applicants, whomever you pick is not going to represent all of the students. But, that is not the point I am trying to make. I think that, obviously, we would like to have more applicants, but this is what we have and the screening committee and the nominating committee will both try to pick the most qualified applicant.

Mr. Evans:

Well, I am kind of doubtful that thirteen would be representative of the various significant groups that exist on campus, especially the minority groups. I have not seen the applications yet.

Ms. Davis:

If I might summarize, there are couple of points that Sophia and I, basically, wanted to make -- one is that with several improvements, perhaps, to the promotional campaign need to be made. *Lantern* stories could be done, as I mentioned earlier; government bodies addressed; distribution of applications throughout the campus at residence halls, unions, colleges offices, areas of that nature, as opposed to just going to the student government office. Also the current students on the Board of Trustees could offer a program in conjunction with the student governments, saying "we are here, the deadline is in two or three weeks, if you have any questions come ask us, we will tell you what it means to be a Student Trustee."

Secondly, as I said earlier, we believe that the students on the Board need to be representative of the student population and it is virtually impossible to believe that thirteen applicants is going to be able to give us a representative sample. As a result, OSU and the student body in general potentially may not be served as well as it could be. We see the Student Trustees as the most important position for students on this campus and in this community. Because it is a guaranteed two-year term and not just a one-year term like your positions as president and vice president of your respective student governments, we believe that USG, IPC, and CGS need to be promoting and advocating this position more than any other program. The two-year term intensifies the importance of selectively choosing the student for the Board of Trustees here at Ohio State.

Mr. Teaford:

We got a very clear message from the thirteen people. It is a very clear message.
November 3, 1989 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

President Jennings:

Yes, it is a very clear message.

Mrs. Bowser:

For six years that is all the students talked about, that you wanted a trustee on the Board. That's all you talked about.

Ms. Casto:

This has been going on since I was an undergraduate.

Mrs. Bowser:

It is incredible!

Ms. Casto:

That was part of a sixties movement. That was a big deal, and look what happened. I can't believe --

Mr. Berry:

Well, we could go on for quite awhile on this subject. I don't think any one person, or one group is at fault, but I think we should certainly take note of the fact that this isn't a desirable situation and we should do something about it. We hope that we will improve in the future. Of course, I agree, that after your evaluation process, if you don't feel any of them are really the people you would like to recommend, then I think we should reevaluate what we should do to get other applicants this year. We don't just want to say here are the best two or three out of thirteen, if we don't really feel that any of them are qualified. Now maybe all of them are good people; they may all be very well qualified.

Mr. Shumate:

Are there any other questions? Thank you both for coming this morning. Thank you for your reports. That completes my report, Mr. Chairman.

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

My report will be very brief since we are running behind schedule. We met with Dr. Dan Garrison who is head of the Agricultural Technical Institute at Wooster. His enthusiasm is wonderful and he was very impressive. He discussed many of the good things going on at ATI -- some of them very non-traditional -- and it made me very proud to hear his report. That completes my report.
November 3, 1989 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

Mr. Berry:

It was a good report, I sat in on it.

(See Appendix XXV for complete report on The Agricultural Technical Institute, page 481.)

---0---

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

The Fiscal Affairs Committee met this morning and we heard a report on the 1989-90 Current Funds Budget - 1st Quarter Report.

(See Appendix XXVI for the charts on The Ohio State University 1989-90 Current Funds Budget, 1st Quarter Report, page 485.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 45

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summary for September 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of September 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
November 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR SEPTEMBER 1989

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>113</td>
<td>$10,738,286.63</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>37</td>
<td>$466,683.00</td>
</tr>
<tr>
<td>Total</td>
<td>150</td>
<td>$11,204,969.63</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The Eugene Thal Scholarship Fund
  (Financial assistance for students in the field of business administration) $ 378,778.00
- The Dr. and Mrs. Victor L. Steffel Memorial Fund
  (Scholarships - first-year dental students) $ 120,000.00
- The Dale E. and Lena K. Crossen Memorial Fund
  (Support the College of Agriculture) $ 75,000.00
- Donald J. Borror Fund for Bioacoustical Studies
  (Aid bioacoustical research, teaching and service programs) $ 15,000.00
- Harry H. and Margaret B. Postle Scholarship Fund
  (75% for Scholarships - College of Dentistry; and 25% - used by the College of Human Ecology) $ 15,000.00
November 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - September 1989

Federal Research Contracts/Grants

$1,094,210.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Stress: Impact on the Immune-Endocrine Axis and Health, Department of Microbiology and Immunology (M. R. Glaser), 1 September 1989 through 31 August 1990. (Project 767005 - Continuation)

$621,765.00 - Department of Health and Human Services, Bureau of Maternal and Child Health and Resources Development, Rockville, Maryland, Mental Retardation Training, Nisonger Center (V. L. Reynolds), 1 July 1989 through 30 June 1990. (Project 767710 - Continuation)

$618,253.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and C. E. Cuevas) and Department of Agricultural Economics and Rural Sociology and Department of Agricultural Economics and Rural Sociology - OARDC (D. W. Adams), 1 September 1989 through 30 April 1992. (Project 763301 - Continuation)

$550,000.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, The Ohio Sea Grant Program, Center for Lake Erie Area Research (J. M. Reutter and M. Brainard), Department of Agricultural Economics and Rural Sociology (L. J. Hushak), Department of Zoology (D. W. Garton), Department of Civil Engineering (K. W. Bedford and M. R. McCord), School of Natural Resources (R. W. Fortner), Cooperative Extension State Operations (J. D. Rohrer), Department of Educational Studies: Humanities, Science, Technological, and Vocational (V. J. Mayer), and Department of Welding Engineering (S. Rokhlin), 1 September 1989 through 31 August 1990. (Project 767770 - Continuation)

$236,313.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Personality, Psychological Stress, and Immunocompetence, Department of Microbiology and Immunology (M. R. Glaser and W. P. Lafuse), Department of Psychiatry (J. Kiecolt-Glaser), and Oral Biology (J. F. Sheridan), 1 September 1989 through 31 August 1990. (Project 764961 - Continuation)

$200,000.00 - Department of Health and Human Services, Office of Human Development Services, Administration on Developmental Disabilities, Kansas City, Missouri, UAF Administration and Operation, Nisonger Center (S. R. Schroeder), 1 July 1989 through 30 June 1990. (Project 763712 - Continuation)

$195,087.00 - Department of Energy, Idaho Falls, Idaho, Installation and Evaluation of a Nuclear Power Plant Operator Advisor Based on Artificial Intelligence Technology, Department of Mechanical Engineering (B. K. Hajek and D. W. Miller), 1 September 1989 through 30 September 1990. (Project 767097 - Continuation)

$151,350.00 - Department of Education, Washington, D.C., Fellowships for Competitiveness in Chemistry in the 21st Century, Department of Chemistry (C. W. Mathews), 1 January 1990 through 31 December 1990. (Project 767096 - Continuation)

$149,776.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, General Simulation of Helicopters and Interface to Antenna Pattern Prediction
November 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$138,383.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Aromatic L-Amino Acid Decarboxylase Modulation, Department of Pharmacology (N. H. Neff) and Department of Pharmacology and Department of Psychiatry (M. H. Neff), 1 September 1989 through 31 August 1990. (Project 767815 - New)

$131,815.00 - Department of Health and Human Services, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland, Pathway Formation in the Developing Spinal Cord, Oral Biology (R. H. Nordlander), 1 July 1989 through 31 March 1990. (Project 767816 - New)

$128,140.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Early Integration Training Project: Providing Training to Child Care Staff to Promote the Integration of Young Children with Disabilities, Education Administration and Department of Educational Services and Research (L. Magliocca), 1 September 1989 through 31 August 1990. (Project 767808 - New)

$123,915.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Improved Systemic Delivery of Anti-AIDS Drug 2', 3'-Dideoxyinosine, Department of Surgery (M. G. Wientjes) and College of Pharmacy (J. L. Au), 1 September 1989 through 31 August 1990. (Project 767804 - New)

$122,056.00 - Environmental Protection Agency, Washington, D.C., Bacterial Degradation Under Anaerobic Conditions of KPEG-Modified Polychlorinated Biphenyls, Department of Microbiology (J. A. Krzycki), 1 October 1989 through 30 September 1990. (Project 767833 - New)

$118,110.00 - Department of Energy, Idaho Falls, Idaho, Development of an Empirical Model for a Steam Driven Emergency Core Cooling System for an Inherently Safe Reactor and a Dynamic Methodology for System Reliability Assessment, Department of Mechanical Engineering (R. N. Christensen and T. Aldemir), 1 September 1989 through 30 September 1990. (Project 767093 - Continuation)


$105,334.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Structural Functional Studies of Neutrophil Activation, Department of Anatomy (J. M. Robinson), 1 August 1989 through 31 July 1990. (Project 766929 - Continuation)
Federal Research Contracts/Grants (contd)

$102,532.00 - National Science Foundation, Washington, D.C., A Cooperative Climatological-Glaciological Program in the Antarctic Peninsula -- Phase I, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 September 1989 through 28 February 1991. (Project 767075 - Continuation)

$101,639.00 - Department of Health and Human Services, National Institute on Deafness and Other Communication Disorders, Bethesda, Maryland, Gustatory Afferent Organization in the Solitary Nucleus, Oral Biology (S. P. Travers), 1 September 1989 through 31 August 1990. (Project 765694 - Continuation)

$100,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, The Evaluation of Coatings and Lubricants for Increased Service Lives of Die Casting Dies, Department of Industrial and Systems Engineering (R. Shivpuri) and Engineering Experiment Station (T. Altan), 30 September 1989 through 29 September 1991. (Project 767083 - Continuation)

$100,000.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Altan), 15 September 1989 through 14 September 1990. (Project 767477 - Continuation)

$99,827.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Image Representation of Target Scattering Properties and Target Signature Modeling, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and R. J. Marhefka), 1 September 1989 through 31 August 1990. (Project 767063 - Continuation)

$90,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Molecular Biology of Mating Type and Pathogenicity in the Smut Fungus Microbotryum violaceum, Biotechnology Program and Department of Plant Pathology (R. C. Garber), 15 August 1989 through 31 August 1991. (Project 767810 - New)

$89,752.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Scatterer Modeling/Calibration Study (Big Ear Measurement Supplement), ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka and J. D. Young), 1 September 1989 through 30 September 1989. (Project 766957 - Continuation)


$78,000.00 - National Science Foundation, Washington, D.C., Study of Gas-Liquid-Solid Fluidization, Department of Chemical Engineering (L. S. Fan), 1 September 1989 through 31 August 1990. (Project 767794 - New)

$78,219.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, The Optimal Corneal Shape, College of Optometry (L. G. Carney), 30 September 1989 through 29 September 1990. (Project 766416 - Continuation)
Federal Research Contracts/Grants (contd)

$74,967.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Colorant Formulation of Polymeric Prosthetic Materials, Restorative and Prosthetic Dentistry (W. M. Johnston), 1 July 1989 through 30 June 1990. (Project 766900 - Continuation)

$74,769.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Analysis of Airborne Antenna Patterns, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman and W. D. Burnside), 1 September 1989 through 31 August 1990. (Project 761912 - Continuation)

$74,563.00 - National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., The Protestant Imagination: From Tyndale to Milton, Department of English (J. N. King), 1 October 1989 through 30 September 1990. (Project 767823 - New)

$74,083.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Human Erythroid-Potentiating Activity, Department of Internal Medicine (B. R. Avalos), 1 August 1989 through 31 July 1990. (Project 766427 - Continuation)


$68,922.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 761160 - Continuation)

$65,248.00 - National Science Foundation, Washington, D.C., Distributed Scheduling for Networks of Workstations, Department of Computer and Information Science (P. Krueger), 1 October 1989 through 30 September 1991. (Project 767796 - New)

$58,537.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen, and M. J. Tarr), 16 December 1985 through 15 December 1990. (Project 765188 - Continuation)


$52,279.00 - National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., The Great Theorems of Mathematics in Historical Context, Department of Mathematics (J. C. Ferrar and W. W. Dunham), 1 October 1989 through 30 September 1990. (Project 767799 - New)
Federal Research Contracts/Grants (contd)


$50,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Detection of *Ehrlichia risticii* Antigen by Capture Enzyme Immunoassay, Department of Veterinary Pathobiology (Y. Rikihisa), 15 September 1989 through 30 September 1990. (Project 767821 - New)

$50,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Self-Incompatibility in *Penturia*: Regulation of S-Locus Gene Expression, Department of Molecular Genetics (T. L. Sims), 1 September 1989 through 31 August 1990. (Project 767790 - New)


$50,000.00 - National Science Foundation, Washington, D.C., Speech Recognition Using Layered Abduction and Multiple Knowledge Types, Department of Computer and Information Science (J. R. Josephson, T. A. Patten, and B. Chandrasekaran), Department of Linguistics (M. E. Beckman), Department of Electrical Engineering (A. Krishnamurthy), and Division of Speech and Hearing Science (R. A. Fox and L. L. Feth), 15 August 1989 through 31 August 1990. (Project 767601 - New)

$49,972.00 - National Science Foundation, Washington, D.C., Sterilization and Sealing of Aseptic Food Packages, Department of Welding Engineering (D. Dickinson and A. Benator), 1 September 1989 through 31 August 1991. (Project 767813 - New)

$45,000.00 - Department of the Army, Army Materiel Command, Aberdeen Proving Ground, Maryland, Unsteady Fluid Motion in Liquid-Filled Containers, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 15 July 1989 through 30 October 1989. (Project 767692 - New)


$43,103.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, A Centralized Database for Thermodynamic Data on Lipid Mesomorphic Phase Transitions and Miscibility, Department of Chemistry (M. Caffrey), 1 September 1989 through 31 August 1990. (Project 767047 - Continuation)

$40,000.00 - Department of Agriculture, Science and Education, Washington, D.C., A Possible Mechanism for the Regulation of Gas Diffusion in Legume Nodules, Department of Agronomy - OARDC (J. G. Streeter), 1 September 1989 through 31 August 1990. (Project 767814 - New)
Federal Research Contracts/Grants (contd)

$40,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, High Strain Rate Characterization of Ceramics in Shear, Department of Engineering Mechanics (A. Gilat), 14 June 1989 through 14 June 1990. (Project 767094 - Continuation)


$36,121.00 - Department of the Army, Army Corps of Engineers, Hanover, New Hampshire, Integrating Tactical Terrain Data with Remote Sensing for U.S. Army Corps of Engineers Applications, Department of Civil Engineering (C. J. Merry), 1 September 1989 through 31 August 1990. (Project 767786 - New)


$35,000.00 - Department of Energy, Idaho Falls, Idaho, Energy Reactor Sharing Program, Engineering Experiment Station (R. D. Myser), 1 September 1989 through 31 August 1990. (Project 762411 - Continuation)

$30,888.00 - Department of the Interior, National Park Service, Washington, D.C., A Descriptive Analysis of the National Park Service Data in the Public Area Recreation Visitor Survey (PARVS) for Improving Interpretation and Visitor Services, School of Natural Resources and Department of Natural Resources - OARDC (G. W. Mullins), 14 September 1989 through 30 September 1990. (Project 767793 - Continuation)

$25,431.00 - Department of the Interior, National Park Service, Washington, D.C., Research, Development, Evaluation, and Production of a Biological Diversity Slide Presentation, School of Natural Resources and Department of Natural Resources - OARDC (G. W. Mullins), 14 September 1989 through 30 October 1990. (Project 767793 - New)


$20,992.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Collaborative Ocular Melanoma Study - Clinical Center, Department of Ophthalmology (F. H. Davidorf), 1 August 1989 through 31 July 1990. (Project 765050 - Continuation)

$19,590.00 - National Science Foundation, Washington, D.C., Multi-Wavelength Analysis of M81 with Comparisons to Other Nearby Galaxies, Department of Physics (J. C. Garland and M. Kaufman), 15 September 1989 through 31 August 1992. (Project 767825 - New)
Federal Research Contracts/Grants (contd)

$16,012.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Short-Term Training for Students in Health Professional Schools, Oral Biology (S. Rosen), 1 June 1989 through 31 May 1990. (Project 764680 - Continuation)

$15,008.00 - Department of Agriculture, Science and Education, Washington, D.C., Mechanisms Regulating Nodulation Formation in Soybean, Department of Agronomy - OARDC and Department of Agronomy (W. D. Bauer), 15 September 1989 through 30 September 1990. (Project 767817 - Continuation)

$13,580.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1989 through 30 June 1990. (Project 765529 - Continuation)

$13,406.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Development of Cerebellar Circuits, Department of Anatomy (J. S. King), 1 September 1989 through 31 August 1990. (Project 760045 - Continuation)

$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Processes of Change in Smoking Cessation, Department of Life Span Process (M. E. Wawers), 1 September 1989 through 31 August 1990. (Project 767831 - New)

$12,000.00 - Department of Agriculture, Science and Education, Beltsville, Maryland, Genetic and Physiological Basis for Resistance of Elms to the Elm Leaf Beetle -- Phase I, Department of Entomology (R. W. Hall), 1 August 1989 through 1 August 1992. (Project 766343 - Continuation)

$11,266.00 - Department of Defense, National Security Agency, Fort George G. Meade, Maryland, The Arithmetic of Function Fields, Department of Mathematics (D. M. Goss), 12 September 1989 through 11 September 1990. (Project 767717 - New)

$9,999.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1989 through 31 August 1990. (Project 766355 - Continuation)

$8,667.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Acquired Immunodeficiency Syndrome Clinical Study Group, Department of Internal Medicine (R. J. Fass), 1 September 1988 through 31 August 1989. (Project 766341 - Continuation)

$8,224.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Computational Study of the Jet-in-the-Ground-Effect Flow with Dynamically Adaptive Grid, Department of Mechanical Engineering (S. Nakamura), 21 March 1989 through 20 March 1990. (Project 766675 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$2,000.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Frontiers in Smooth Muscle Research: Emil Bozler Symposium, Department of Physiology (J. A. Rall), 1 May 1989 through 30 April 1990. (Project 767468 - Continuation)

$2,000.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Determination of Residual Stress and Effects in Thick Section Weldments for Hydraulic Structures, Department of Welding Engineering (C. L. Tsai), 12 September 1989 through 11 December 1989. (Project 767229 - Continuation)

TOTAL - FEDERAL AWARDS $7,450,758.00

State of Ohio Research Contracts/Grants

$75,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Mental Health Trainees: Practice with Persons Who Are Severely Mentally Ill, College of Social Work (M. Coleman), 1 July 1989 through 30 June 1990. (Project 767742 - New)

$49,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, ODMH Residency/Traineeship Program, Department of Family and Community Nursing (J. A. Clement), 1 July 1989 through 30 June 1990. (Project 767828 - New)

$38,000.00 - State of Ohio, Department of Education, Columbus, Ohio, The Young Scholars Program, Academic Affairs Administration (J. J. Bishop), 9 July 1989 through 19 August 1989. (Project 767809 - New)

$4,650.00 - State of Ohio, Department of Health, Columbus, Ohio, OSU High Risk Perinatal Project -- Care of the High Risk Mother and Infant, Department of Pediatrics (L. Cordero), 1 October 1988 through 30 September 1989. (Project 765042 - Continuation)

$1,672.00 - State of Ohio, Department of Education, Columbus, Ohio, Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. L. Mangum), 1 July 1989 through 30 June 1990. (Project 766869 - Continuation)

TOTAL - STATE OF OHIO AWARDS $168,322.00

Industrial Research Contracts/Grants

$137,452.64 - Rosemount, Inc., Burnsville, Minnesota, Advanced Radar Cross Section Measurements, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 18 August 1989 through 31 August 1990. (Project 767757 - Continuation)

$110,911.00 - Resource International, Incorporated, Columbus, Ohio, Composite Material Tester -- Phase II, Department of Civil Engineering (S. Chaturvedi and R. L. Sierakowski), 1 August 1989 through 23 May 1990. (Project 767795 - New)
Industrial Research Contracts/Grants (contd)

$52,194.00 - Sandoz, Inc., East Hanover, New Jersey, Testing of Sandostatin Action on Angiogenesis, Department of Pathology (R. E. Stephens), 1 May 1989 through 30 April 1990. (Project 767743 - New)

$25,000.00 - Sears Manufacturing Company, Davenport, Iowa, Research and Development of Heavy-Duty Truck Seating System and Interior Paneling Concept, Department of Industrial Design (R. F. Butler and H. Goeller), 1 July 1989 through 30 June 1990. (Project 766920 - Continuation)

$23,235.00 - Adria Laboratories, Dublin, Ohio, Test of the Absorption of Adria Magnesium Lactate Tablets, Department of Pharmacology (N. Gerber), 1 March 1989 through 28 February 1990. (Project 767547 - Continuation)

$21,208.00 - Universal Energy Systems, Inc., Dayton, Ohio, USAF Graduate Fellowship, Department of Electrical Engineering (R. Moses), 1 September 1989 through 31 August 1990. (Project 767803 - New)

$16,700.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, ElectroScience Laboratory, Department of Electrical Engineering (A. J. Marhefka), 1 August 1989 through 30 September 1989. (Project 766088 - Continuation)

$10,485.00 - Applied R & D, Olmsted Falls, Ohio, Vertical Multi-Junction Photovoltaic Cell, Department of Electrical Engineering (G. J. Valeo), 1 August 1989 through 31 December 1989. (Project 767802 - New)


$2,193.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Non-Native Speakers of English in the Work Setting Through Individualized Tutorial, English as a Second Language Program (R. N. Kantor), 1 October 1988 through 30 September 1989. (Project 767206 - Continuation)

$1,642.00 - CeramPhysics, Inc., Westerville, Ohio, Ceramic Honey-combs for Joule-Thompson Cryocooler, Department of Materials Science and Engineering (E. R. Kreidler), 1 March 1989 through 6 April 1989. (Project 767822 - New)
Industrial Research Contracts/Grants (contd)

Equipment - The Baker Company, Inc., Sanford, Maine, A Randomized Trial of Environmental Control for the Prevention of Filamentous Fungal Infections in Bone Marrow Transplant Recipients, Department of Internal Medicine (B. C. Fox), 1 August 1989 through 31 July 1989. (Project 767777 - New) (Approximate Dollar Value - $8,080)

Personnel Services - Decision Images, Inc., Princeton, New Jersey, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bosster), 1 August 1989 through 31 July 1990. (Project 766219 - Continuation) (Approximate Dollar Value - $25,000)

TOTAL - INDUSTRIAL AWARDS $ 419,624.04

Other Non-Federal Research Contracts/Grants

$1,668,500.00 - National Association of Regulatory Utility Commissioners, Washington, D.C., The Research and Assistance Plan and Budget for the National Regulatory Research Institute: The Business Plan for Program Year 1990, National Regulatory Research Institute (D. N. Jones), 1 September 1989 through 31 August 1990. (Project 763289 - Continuation)


$100,000.00 - American Cancer Society, Atlanta, Georgia, Differential Sexual Outcomes Following Treatment of in Situ Vulvar Cancer: Prevention of Sexual Functioning Morbidity, Department of Psychology (B. L. Andersen), 1 July 1989 through 30 June 1990. (Project 767617 - New)

$100,000.00 - United States-Israel Binational Agricultural Research and Development Fund, Bet Dagan, Israel, Mechanisms of Interaction Between Verticillium dahliae and Root-Lesion Nematodes in the Potato Early Dying Syndrome, Department of Plant Pathology - OARDC (R. C. Rowe and R. M. Riedel), 1 October 1989 through 30 September 1992. (Project 767702 - New)

$79,415.00 - Massachusetts Institute of Technology - Lincoln Laboratory, Lexington, Massachusetts, Electromagnetic Analysis of Thin Material and Conducting Wires, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman), 1 June 1989 through 30 April 1990. (Project 767806 - New)

$56,008.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 June 1989 through 30 September 1995. (Project 766536 - Continuation)


$49,450.00 - The Juvenile Diabetes Foundation International, New York, New York, Effect of Diabetes on Messenger RNA Metabolism, Department of Physiological Chemistry (D. E. Schumm), 1 September 1989 through 31 August 1990. (Project 767801 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$34,114.00 - University of California, Livermore, California, Development and Use of Radioactive Ion Beam Facility, Department of Physics (R. N. Boyd), 1 September 1989 through 31 August 1990. (Project 767818 - New)

$33,333.00 - Klingenstein Fund, New York, New York, Klingenstein Fellowship in Neuroscience, Oral Biology (W. E. Thomas), 1 July 1989 through 30 June 1990. (Project 766717 - Continuation)

$32,890.00 - American Heart Association, Dallas, Texas, Endothelial Transport of Macromolecules: Structural Studies, Department of Anatomy (J. M. Robinson), 1 September 1989 through 30 August 1990. (Project 767081 - Continuation)


$30,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Genetic Characterization of Novel Elements in Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 September 1989 through 31 August 1990. (Project 767800 - New)

$25,000.00 - Muscular Dystrophy Association, New York, New York, Characterization of the Mutant Gene of the Wobbler Mouse, Department of Neurology (J. R. Mendell and X. S. Jiang), 1 July 1989 through 30 June 1990. (Project 767616 - New)

$20,194.00 - University of Georgia, Athens, Georgia, Effects of Resource Quality and Microarthropods on Forest Floor Nitrogen Dynamics, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards) and Department of Entomology (J. M. Blair), 1 September 1989 through 28 February 1991. (Project 767826 - New)

$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Developmental Changes in Calcium Transients and Contractile Dynamics in Myocytes of Cardiomyopathic Rats, Department of Physiology (B. T. Stokes) and Department of Internal Medicine (D. L. Groden), 1 July 1989 through 30 June 1990. (Project 767807 - New)

$13,800.00 - Muskingum County Board of Mental Retardation and Developmental Disabilities, Zanesville, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 September 1989 through 31 August 1990. (Project 767739 - Continuation)

$13,193.00 - Bowling Green State University, Bowling Green, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Northwest Region, Department of Agricultural Education (R. K. Barrick), 1 July 1989 through 30 June 1990. (Project 767049 - Continuation)

$10,994.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (R. K. Barrick), 1 July 1989 through 30 June 1990. (Project 767080 - Continuation)
Other Non-Federal Research Contracts/Grants (contd)

$10,800.00 - Children's Hospital Research Foundation, Columbus, Ohio, Insulin Effects on Growth in Children with Cystic Fibrosis, Department of Internal Medicine (T. M. O'Dorisio), 28 February 1989 through 27 February 1990. (Project 767837 - New)

$10,000.00 - National Geographic Society, Washington, D.C., Sound Recording and Behavioral Correlates of the Vocalizations of Paridae (Aves) from China, Department of Zoology (A. D. Thompson and S. L. Gaunt), 1 September 1989 through 30 April 1990. (Project 767798 - New)

$2,780.59 - North Atlantic Treaty Organization, Brussels, Belgium, Coronary Artery Geometry and Disease Distribution in Man, Biomedical Engineering Center (M. H. Friedman), 1 July 1989 through 30 June 1990. (Project 767811 - New)

$500.00 - American Chemical Society, Washington, D.C., Oncofetal Proteins as Tumor Markers, Department of Physiological Chemistry (T. E. Webb) and Medicine Administration (C. L. Yash), 11 July 1989 through 18 August 1989. (Project 767766 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $2,699,582.59

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

$135,442.00 from Lockheed Missiles & Space Co., Sunnyvale, California, for "Technical Assistance/Large Compact Range Project," under the direction of the department of Electrical Engineering for the period January 20, 1989 through January 20, 1990. (312496, Ext. 2)

$123,867.00 from AITRC, Columbus, Ohio, for "A Proposal for a Computerized System to Support Scholarly Writing," under the direction of the department of Computer and Information Science for the period July 1, 1989 through June 30, 1990. (529818)

$80,000.00 from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the department of Electrical Engineering. (312884)

$48,176.00 from ASME Gear Research Institute, Naperville, Illinois, for "Contact Analysis of Worm Gears," under the direction of the department of Mechanical Engineering for the period September 1, 1989 through August 31, 1990. (529822)

$25,000.00 from Edison Welding Institute, Columbus, Ohio, for "An Experimental Investigation of Substrate-to-Metal Sealings in Microelectronics," under the direction of the department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (312516)

$20,356.00 from 19 sponsors of 29 development projects under the direction of two research areas of the College.

$18,900.00 additional funding from General Electric, Cincinnati, Ohio, for "Refurbish Old Belrnouth," under the direction of the department of Aeronautical and Astronautical Engineering for the period December 1, 1986 through October 2, 1989. (312895, Ext. 1)
November 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$10,000.00 from various industry for membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$4,942.00 from Ross Laboratories, Columbus, Ohio, for "Feeding Tube Electrode Optimization Study," under the direction of the Engineering Experiment Station -- Biomedical Engineering for the period October 1, 1989. (312485, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $466,683.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Eugene Thal Scholarship Fund

The Eugene Thal Scholarship Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Eugene Thal (B.S.Bus.Adm. '35) of Dayton, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance for students in the field of business administration at The Ohio State University College of Business. Scholarship selection criteria and awarding decisions are at the discretion of the Dean of the College of Business or their representative in consultation with the University Committee on Student Financial Aid.

If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

The Dr. and Mrs. Victor L. Steffel Memorial Fund

The Dr. and Mrs. Victor L. Steffel Memorial Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with a gift to The Ohio State University Development Fund from the estate of Victor L. (D.D.S. '26) and Marie M. Steffel, of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

409
November 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Dr. and Mrs. Victor L. Steffel Memorial Fund (contd)

The annual income shall be used to provide one or more annual scholarship(s) to first-year dental students. To be eligible, a student must have a grade point average in the upper ten percent of the entering class and have scored in the upper twenty percent on the dental admission test taken by the entering class. This scholarship(s) may be renewed annually, but the student must be in the upper twenty percent of his/her class to be considered. The College of Dentistry will review all applicants, and recipients will be chosen in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors, with preference given to students in the College of Medicine for scholarships under the same criteria.

The Dale E. and Lena K. Crossen Memorial Fund

The Dale E. and Lena K. Crossen Memorial Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Lena K. Crossen (B.S.H.E. '48) of Willard, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support the College of Agriculture of The Ohio State University with expenditures to be made at the discretion of the Vice President for Agricultural Administration and Executive Dean of the College of Agriculture.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

Donald J. Borror Fund for Bioacoustical Studies

The Donald J. Borror Fund for Bioacoustical Studies was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Donald J. Borror, Professor Emeritus of entomology.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
November 3, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Donald J. Borror Fund for Bioacoustical Studies (contd)

The annual income shall be used to aid bioacoustical research, teaching and service programs at the discretion of the director of the Borror Laboratory of Bioacoustics and with the approval of the Dean of the College of Biological Sciences.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

Harry H. and Margaret B. Postle Scholarship Fund

The Harry H. and Margaret B. Postle Scholarship Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the Harry H. and Margaret B. Postle Student Loan Fund and with additional gifts from Harry H. Postle (D.D.S. ’48) and Margaret B. Postle (B.S.H.E. ’47) of Columbus, Ohio. Dr. Postle taught Restorative Dentistry in the College from 1948-1983 and is an Associate Professor Emeritus.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used in the following manner. Three-fourths (75%) shall be used for scholarships in the College of Dentistry. Preference shall be given to those students exhibiting financial need. However, awards may be made based on academic merit. The Dean of the College of Dentistry shall have responsibility for making awards and the option of selecting the method of award, in consultation with the University Committee on Student Financial Aid. The remaining one quarter (25%) shall be used by the College of Human Ecology at the discretion of the Dean of that college.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

--0--
Employment of Architects/engineers And
Request for Construction Bids

Background

Pressey Hall - Office of Career Development

This project will create space for the relocation of the Office of Career Development. This office will be relocated from Rightmire Hall in order to allow expansion space for the Biotechnology Center.

Funds for the project are available from University funds. Construction costs for the project are estimated at $265,000.00 and the total estimated project cost is $320,000.00.

(See Appendix XXVII for map, page 491.)

EMPLOYMENT OF ARCHITECTS/ENGINEERS AND
REQUEST CONSTRUCTION BIDS

Resolution No. 90-46

PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Pressey Hall - Office of Career Development project.

WHEREAS the Pressey Hall - Office of Career Development project will create space for the Office of Career Development’s relocation from Rightmire Hall; and

WHEREAS the total estimated cost of the project is $320,000, with the estimated construction cost being $265,000, with funding provided from University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services be negotiated between the firms selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established State of Ohio and University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
Ratification of Request for Construction Bids and Acceptance of the Report of Award of Contracts and Establishment of Contingency Funds

Background

Lima Regional Campus - Reed Hall Parking Lot Addition

Higher than anticipated enrollments for fall quarter coupled with the fact that the Lima Regional Campus is primarily a commuter campus necessitated additional parking space be made available prior to the start of Autumn Quarter. To expedite this project, plans and specifications were developed by the University Architect’s Office and the Department of Physical Facilities, and the project was bid on August 31. The project was completed on September 19.

The total project cost is $190,000.00; funding is provided from Lima Regional Campus funds.

The contract awarded is as follows:

<table>
<thead>
<tr>
<th>General Contract</th>
<th>E. J. Meyer &amp; Sons, Ottawa, Ohio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount:</td>
<td>$155,833.00 *</td>
</tr>
<tr>
<td>Estimate:</td>
<td>$198,231.50 *</td>
</tr>
<tr>
<td>Contingency Allowance:</td>
<td>$19,508.58</td>
</tr>
<tr>
<td>Total Project Cost:</td>
<td>$190,000.00 *</td>
</tr>
</tbody>
</table>

* Recommended alternate included in these figures.

(See Appendix XXVIII for tabulations and map, page 493.)

RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-47

LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION

Synopsis: The Fiscal Affairs Committee recommended ratification of the request for construction bids and acceptance of the report of award of contracts for the Lima Regional Campus - Reed Hall Parking Lot Addition project.

WHEREAS the Lima Regional Campus had unanticipated high enrollments for Autumn Quarter; and

WHEREAS the Lima Regional Campus is primarily a commuter campus; and

WHEREAS insufficient parking space existed for Autumn Quarter; and

WHEREAS this project provides additional parking to meet the increased demand and was bid as an emergency so that it could be completed prior to the start of Autumn Quarter:

NOW THEREFORE
November 3, 1989 meeting, Board of Trustees

RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND
ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION (contd)

BE IT RESOLVED, That the Board of Trustees hereby ratifies and approves action taken by the President and/or Vice President for Business and Administration to request construction bids and award contracts on the Lima Regional Campus - Reed Hall Parking Lot Addition project in accordance with established University procedures and hereby accepts the report of award of contracts for this project.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Report of Award of Contracts and
Establishment of Contingency Funds

Background

See Appendix XXVIV for a complete tabulation of bids on all projects and locator maps, page 497.) Amounts shown with an * include accepted alternates.)

Masonry Improvements - Botany and Zoology Building
Masonry Improvements - Cockins Hall
Starling Loving Hall Pathology Photo Studio and Microscopy Lab
Piketon Agricultural Research and Extension Center
Faculty Club Improvements

Masonry Improvements - Botany and Zoology Building

This project will renovate the damaged and deteriorated exterior masonry on the Botany and Zoology Building. The total project cost is $209,500.00; funding is provided from State capital appropriations (House Bill 810, Basic Renovations). The estimated completion date is August 1990. The contract awarded is as follows:

| General Contract: | H. K. Phillips, Columbus, Ohio |
| Amount: | $189,675.00 |
| Estimate: | $194,400.00 |
| Total Contracts: | $189,675.00 |
| Contingency Allowance: | $18,825.00 (9.9% of construction cost) |
| Total Project Cost: | $209,500.00 |

Masonry Improvements - Cockins Hall

This project will renovate the damaged and deteriorated exterior masonry on Cockins Hall. The total project cost is $41,200.00; funding is provided from State capital appropriations (House Bill 810, Basic Renovations). The estimated completion date is August 1990.
Report of Award of Contracts and
Establishment of Contingency Funds (contd)

Background (contd)

Masonry Improvements - Cockins Hall (contd)

The contract awarded is as follows:

General Contract: Trisco Systems, Lima, Ohio
Amount: $36,582.00
Estimate: $48,000.00
Total Contracts: $36,582.00
Contingency Allowance: $3,618.00 (9.9% of construction cost)
Total Project Cost: $41,200.00

Starling Loving Hall - Pathology Photo Studio and Microscopy Lab

This project will remodel the east end of the ground floor portion of Starling Loving Hall's "M" wing and include extensive work in the basement and minor exterior work. The remodeled area will accommodate an electron microscope with associated support laboratory and office. In addition, the existing Pathology photo studio will be replaced with a new studio, darkrooms, and support facilities. The project also includes new lighting and a dedicated HVAC system. The total project cost is $309,800.00; funding is provided from Health Services. The estimated completion date is June 1990.

General Contract: Williamson Builders, Plain City, Ohio
Amount: $87,600.00
Estimate: $133,100.00

Plumbing Contract: Miles McClellan Construction, Columbus, Ohio
Amount: $32,393.00
Estimate: $55,900.00

HVAC Contract: Williamson Builders, Plain City, Ohio
Amount: $95,200.00
Estimate: $61,200.00

*The Plumbing and HVAC contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.*
November 3, 1989 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Starling Loving Hall - Pathology Photo Studio and Microscopy Lab (contd)

Electric Contract: Advantage Electric, Columbus, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>$ 53,200.00 +</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate</td>
<td>$ 48,500.00</td>
</tr>
</tbody>
</table>

Total All Contracts: $268,393.00

Contingency Allowance: $ 23,861.31 (8.6% of construction cost)

Total Project Cost: $309,800.00

+The Electric contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

Piketon Agricultural Research and Extension Center

This project will encompass the total development of a 160 acre farm located in Pike County, Ohio, approximately one mile south of Piketon on the southeast corner of the intersection of State Route 124 and Shyville Road (County Road 58). Included in this project will be agricultural land development and improvements, building site land development, development and extension of all utilities, planning and construction of new building structures, and renovation of existing structures. This new facility will support programs in agronomic alternative crops, horticulture and total water management, impact of industrial and agricultural practices on buried valley aquifer, establishment and operation of aquaculture, establishment and operation of wood processing, and expanded non-agricultural economic development. The total project cost is $4,135,956.44; funding is provided from State capital appropriations (House Bill 870 and Senate Bill 386) and University funds. The estimated completion date is December 1990. Contracts awarded are as follows:

General Contract: Sargents Construction, Waverly, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>$2,133,400.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate</td>
<td>$2,205,400.00</td>
</tr>
</tbody>
</table>

Plumbing Contract: A. J. Stockmeister, Inc., Jackson, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>$ 295,694.00 +</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate</td>
<td>$ 172,200.00</td>
</tr>
</tbody>
</table>

+The Plumbing and HVAC contracts are in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
November 3, 1989 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Piketon Agricultural Research and Extension Center (contd)

HVAC Contract:  General Heating and Air Conditioning, Flatwoods, Kentucky

- Amount: $357,280.00 +
- Estimate: $246,900.00

Electric Contract:  Reco Electric, Gahanna, Ohio

- Amount: $199,900.00
- Estimate: $223,200.00

Total All Contracts: $2,986,274.00

Contingency Allowance: $149,313.70 (5% of construction cost)

Moveable Equipment: $286,225.00

Land Acquisition: $220,000.00

Total Project Cost: $4,135,956.44

+The Plumbing and HVAC contracts are in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

Faculty Club Improvements

This project will provide for the renovation and improvement of selected areas in and around the Faculty Club, modification of interior space arrangements to comply with appropriate building code requirements, modification of existing trash handling facilities and loading dock arrangements to improve operations, and improvement of existing kitchen layout arrangements to provide more efficient operation. The total project cost is $1,916,386.40; funding is provided from University funds. The estimated completion date is December 1990. Contracts awarded are as follows:

General Contract:  Cody Ziegler, Summit Station, Ohio

- Amount: $653,700.00 * +
- Estimate: $602,057.00 *

+The General contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.
November 3, 1989 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Faculty Club Improvements (contd)

Plumbing Contract: Radico, Inc., Columbus, Ohio

Amount: $ 256,900.00 *

Estimate: $ 280,000.00 *

HVAC Contract: Radico, Inc., Columbus, Ohio

Amount: $ 408,200.00 *

Estimate: $ 435,000.00 *

Electric Contract: Newco Electric, Columbus, Ohio

Amount: $ 220,400.00 *

Estimate: $ 218,480.00 *

Total All Contracts: $1,539,200.00 *

Contingency Allowance: $ 123,136.00 (8% of construction cost)

Total Project Cost: $1,916,336.40

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-48

MASONRY IMPROVEMENTS - BOTANY AND ZOOLOGY BUILDING
MASONRY IMPROVEMENTS - COCKINS HALL
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER
FACULTY CLUB IMPROVEMENTS

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989 and July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Masonry Improvements - Botany and Zoology Building, Masonry Improvements - Cockins Hall, and Piketon Agricultural Research and Extension Center; and
REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

MASONRY IMPROVEMENTS - BOTANY AND ZOOLOGY BUILDING
MASONRY IMPROVEMENTS - COCKINS HALL
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER
FACULTY CLUB IMPROVEMENTS (contd)

WHEREAS resolutions adopted by the Board of Trustees on June 2, 1989 and February 6, 1987, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Starling Loving Hall - Pathology Photo Studio and Microscopy Lab and Faculty Club Improvements:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for Masonry Improvements - Botany and Zoology Building, Masonry Improvements - Cockins Hall, Starling Loving Hall Pathology Photo Studio and Microscopy Lab, Piketon Agricultural Research and Extension Center, and Faculty Club Improvements projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Purchase of Real Property

Background

1624-26 Highland Avenue
Columbus, Ohio

Location and Description

The property consists of a two-story brick residence built in about 1910. The house, which is in good condition, contains approximately 3,225 net square feet; it is divided into four apartments. The property is located at 1624-26 Highland Avenue between Tenth and 11th Avenues; it is within the South Campus acquisition boundary of the University's Master Plan.

Appraisal and Purchase Price

An appraisal done by W.E. Swift and Company in October 1989, valued the property at $110,000.00. A previous MAI appraisal by HER Appraisal Services in June 1989, valued the property at $89,000.00. Since May of this year, when the University first received word that the property was for sale, the University has been negotiating with the former owner and more recently with the current owner, Brixton Development Corporation, located in Columbus. Based on those negotiations, the University now has a signed contract, subject to approval by the Board of Trustees, to purchase the property for $92,500.00.
November 3, 1989 meeting, Board of Trustees

**Purchase of Real Property (contd)**

**Background (contd)**

1624-26 Highland Avenue
Columbus, Ohio (contd)

**Use of the Property**

Title to the property will be taken in the name of the State of Ohio for the use of The Ohio State University. Because the property is located within the Master Plan boundary, acquisition is important in completing implementation of the University's plans for the south campus area. Purchase of this property will complete the University's acquisition of all property in the block bounded by 11th Avenue, Hunter Avenue, an alley, and Highland Avenue.

(See Appendix XXX for map, page 513.)

**PURCHASE OF REAL PROPERTY**

Resolution No. 90-49

1624-26 HIGHLAND AVENUE
COLUMBUS, OHIO

Synopsis: The Fiscal Affairs Committee recommended the purchase of the improved real property located at 1624-26 Highland Avenue in Columbus, Ohio.

WHEREAS The Ohio State University has been presented with an opportunity to purchase the property located at 1624-26 Highland Avenue in Columbus, Ohio; and

WHEREAS this property has an average appraised value of $99,500.00 and the owner, Brixton Development Corporation of Columbus, Ohio, has offered to sell the property to the University for $92,500.00; and

WHEREAS this property is located within the South Campus acquisition boundary of the University's Master Plan and its acquisition will allow the University to consolidate its land holdings in that block; and

WHEREAS funds for the purchase will be provided from general University funds, including those resulting from previous sales of property outside the acquisition boundary:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the State of Ohio for the use of The Ohio State University, the improved real property located at 1624-26 Highland Avenue in Columbus, Ohio, at a price not to exceed $92,500.00, upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University's receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

420
Management of the J. Leonard Camera Center for Industrial and Vocational Rehabilitation

Background

2050 Kenny Road, Columbus, Ohio

The Industrial Commission of Ohio leases (from the Bureau of Workers' Compensation) and operates the J. Leonard Camera Center at 2050 Kenny Road in Columbus, Ohio. The Center, constructed in 1985 at a cost of $45 million, provides industrial and vocational rehabilitation services for industrially disabled workers. It is located across Kenny Road from the University's West Campus and adjacent to the Veterans Administration Outpatient Clinic, on land purchased from the University by the State of Ohio. The Center has been operating at only partial capacity, and in June 1988, the Industrial Commission issued a request for proposals for management and operation of the Center on the Commission's behalf. The University responded to this request and was selected for negotiation of a management agreement.

Under the draft agreement with the Industrial Commission, the University will provide for the management and operation of the Center's facilities and programs. The University will provide a management team consisting of an Administrator, a Medical Director, a Chief Financial Officer, a Director of Professional Services, and a Chief Information Officer. The University also will provide certain financial and information systems, including a computerized "budget management software system" and consultation and support from the Hospitals' financial and information management staffs.

In exchange for these management services and the management team, the University will receive reimbursement for the salaries and benefits for the management team, an additional 25% of that amount as a management support fee, and use of approximately 7,600 square feet of dedicated furnished Center space for the operation of University rehabilitation programs. The Hospitals also will have shared use of all of the Center's facilities (e.g., pharmacy, examining rooms, therapy areas, swimming pool, parking, gymnasium).

Management of the Camera Center will enable the University to provide the complete range of rehabilitation services as well as providing the space and facilities for additional University rehabilitation programs (such as sports medicine and cardiac rehabilitation). The initial term of the agreement is through June 1991, with a two-year renewal term.

The agreement was approved by the University Hospitals Board on September 28 and by the Industrial Commission on September 27. If approved by the Board of Trustees, the agreement will be presented to the State Controlling Board for final approval.

(See Appendix XXXI for Executive Summary on the J. Leonard Camera Center Management Contract and map, page 515.)

MANAGEMENT OF THE J. LEONARD CAMERA CENTER FOR INDUSTRIAL AND VOCATIONAL REHABILITATION

Resolution No. 90-50

Synopsis: The Fiscal Affairs Committee recommended authorization to enter into an agreement with the Industrial Commission of Ohio for the management of the J. Leonard Camera Center.
WHEREAS the Industrial Commission of Ohio operates the J. Leonard Camera Center at 2050 Kenny Road in Columbus, Ohio; and

WHEREAS the Industrial Commission desires to enter into an agreement with The Ohio State University for the University Hospitals to manage and operate the Center's facilities and programs; and

WHEREAS the University desires to manage and operate the Center to enable University Hospitals to provide the complete range of rehabilitation services available and secure space and facilities for additional University rehabilitation programs; and

WHEREAS the appropriate University offices have determined that University Hospitals' management and operation of the Center is in the best interest of the University, and such action has been recommended by the University Hospitals Board:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to enter into an agreement with the Industrial Commission of Ohio for University management and operation of the facilities and programs of the J. Leonard Camera Center upon such terms and conditions as are deemed to be in the best interest of the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

NON-MANDATORY TRANSFER FROM CURRENT FUNDS
FISCAL YEAR 1988-1989

Resolution No. 90-51

Synopsis: The Fiscal Affairs Committee recommended the transfers to Endowment Principal Funds, Loan Funds, Annuity and Life Income Funds, Unexpended Plant Funds, Renewal and Replacement Funds - Remodeling and Renovation, Renewal and Replacements Funds - Repair and Replacement, Retirement of Indebtedness Funds and Investment in Plant Funds.

WHEREAS non-mandatory transfers from current funds for the fiscal year 1988-89 have been made; and

WHEREAS this accounting procedure is in compliance with the auditor of State that all transfers made among fund groups be reported:

NOW THEREFORE

BE IT RESOLVED, That the transfers as detailed in the accompanying report be accepted and approved.
NON-MANDATORY TRANSFER FROM CURRENT FUNDS
FISCAL YEAR 1988-1989 (contd)

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXII for charts, page 521.)

Thereupon the Board adjourned to meet December 1, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

John W. Berry
Chairman
Page 424 is blank
APPENDIX XXII

HIGHLIGHTS OF FOURTEENTH DAY ENROLLMENT FOR THE AUTUMN QUARTER 1989

Presented to the Board of Trustees November 3, 1989
(See page 374)
HIGHLIGHTS OF FOURTEENTH DAY ENROLLMENT
FOR THE AUTUMN QUARTER 1989

THE OHIO STATE UNIVERSITY
OFFICE OF THE UNIVERSITY REGISTRAR

October 16, 1989
# TABLE OF CONTENTS

Highlights Section ............................................ Item 1

Total Enrollment by Campus and Sex ........................... Table 1

Enrollment by Source of Student ................................. Table 2

Enrollment by College and School, Columbus Campus ....... Table 3

Enrollment by Curriculum, Columbus Campus .................. Table 4

Headcount, Credits, and Credits per Student by Level ......... Table 5

Enrollment by County at the Time of Application, Total University ............................... Table 6

Enrollment by County at the Time of Application, Columbus Campus ............................. Table 7

Enrollment by State at the Time of Application, Total University ............................... Table 8

Enrollment by State at the Time of Application, Columbus Campus ............................. Table 9

Enrollment of International Students, Total University .... Table 10

Enrollment of International Students by Curriculum, Columbus Campus ......................... Table 11

Enrollment by Race and Campus ................................ Table 12

Enrollment by Level, Source, and Race, Total University .... Table 13

Enrollment by Level, Source, and Race, Columbus Campus .... Table 14

Enrollment by Level, Race, and Residency, Total University .... Table 15

Enrollment by Full-time/Part-time, Level, and Age Range, Total University .................. Table 16
Highlights of Final Enrollment for the Autumn Quarter of 1989

October 16, 1989

The Autumn Quarter began on September 20, 1989. The official census for the Autumn Quarter was conducted as of the close of processing on October 4, 1989, the fourteenth day after the first day of autumn quarter classes. The fourteenth day census is the basis for these highlights and the supporting data contained herein.

- Total University enrollment is 58,994 down 553 students from Autumn Quarter 1988 (see Table 1).
- Enrollment at all non-Columbus Campuses is up from Autumn Quarter 1988 (see Table 1).
- Most of the decline in undergraduate enrollment at Columbus is attributable to the smaller new first-quarter freshman class (see Table 2).
- Sizeable increases from Autumn Quarter 1988 were recorded in enrollment in Social and Behavioral Sciences, and Arts and Sciences, General (see Table 3).
- Sizeable declines from Autumn Quarter 1988 were recorded in enrollment in Journalism, Continuing Education, Engineering, Graduate School, and University College (see Table 3).
- When University College students are divided by curricular academic program, the number of students in Pre-Medicine and Arts and Sciences, General increased substantially over those enrolled Autumn Quarter 1988 (see Table 4).
- Total university part-time headcount and credits declined at the undergraduate, graduate, and postbaccalaureate professional levels compared to Autumn 1988 (see Table 5).
- At Columbus an increase of over 20% in enrollment from the rural counties of Hocking, Lawrence, Noble, and Paulding was recorded (Table 7).
- Large increases over Autumn Quarter 1988 were recorded in enrollment of students from People’s Republic of China, and Japan. Over half of all international students come from the Republic of China, the Republic of Korea, the People’s Republic of China, and India (see Table 10).
- Over one-half of all graduate students in Engineering are international students (see Table 11).
• Over one-third of all graduate students in Agriculture, Biological Science, and Mathematics and Physical Sciences are international students (see Table 11).

• Total university Black new first-quarter freshmen are up by 61 (see Table 13).

• Columbus Black new first-quarter freshmen are up by 39 (see Table 14).

• Total university Hispanic new first-quarter freshmen are up by 33 (see Table 13).

• Columbus Hispanic new first-quarter freshmen are up by 24 (see Table 14).

• Undergraduate, postbaccalaureate professional, and graduate enrollment all showed declines from among Ohio residents (see Table 15).
## Total Enrollment by Campus and Sex
### Autumn Quarter 1989 Versus Autumn Quarter 1988

| CAMPUS   | AU '88 Number | AU '89 Number | Change Number | Change %  
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>/Total</td>
<td>/Total</td>
<td>Current/Past</td>
<td></td>
</tr>
<tr>
<td>Columbus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>28,649</td>
<td>27,926</td>
<td>-723</td>
<td>-2.5%</td>
</tr>
<tr>
<td>Women</td>
<td>25,020</td>
<td>24,969</td>
<td>-51</td>
<td>-0.2%</td>
</tr>
<tr>
<td>Total</td>
<td>53,669</td>
<td>52,895</td>
<td>-774</td>
<td>-1.4%</td>
</tr>
<tr>
<td>Lima</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>497</td>
<td>551</td>
<td>54</td>
<td>10.9%</td>
</tr>
<tr>
<td>Women</td>
<td>779</td>
<td>762</td>
<td>-17</td>
<td>-2.2%</td>
</tr>
<tr>
<td>Total</td>
<td>1,276</td>
<td>1,313</td>
<td>37</td>
<td>2.9%</td>
</tr>
<tr>
<td>Mansfield</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>480</td>
<td>504</td>
<td>24</td>
<td>5.0%</td>
</tr>
<tr>
<td>Women</td>
<td>797</td>
<td>832</td>
<td>35</td>
<td>4.4%</td>
</tr>
<tr>
<td>Total</td>
<td>1,277</td>
<td>1,336</td>
<td>59</td>
<td>4.6%</td>
</tr>
<tr>
<td>Marion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>442</td>
<td>459</td>
<td>17</td>
<td>3.8%</td>
</tr>
<tr>
<td>Women</td>
<td>695</td>
<td>702</td>
<td>7</td>
<td>1.0%</td>
</tr>
<tr>
<td>Total</td>
<td>1,137</td>
<td>1,161</td>
<td>24</td>
<td>2.1%</td>
</tr>
<tr>
<td>Newark</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>649</td>
<td>661</td>
<td>12</td>
<td>1.8%</td>
</tr>
<tr>
<td>Women</td>
<td>854</td>
<td>921</td>
<td>67</td>
<td>7.8%</td>
</tr>
<tr>
<td>Total</td>
<td>1,503</td>
<td>1,582</td>
<td>79</td>
<td>5.3%</td>
</tr>
<tr>
<td>Wooster</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>491</td>
<td>511</td>
<td>20</td>
<td>4.1%</td>
</tr>
<tr>
<td>Women</td>
<td>194</td>
<td>196</td>
<td>2</td>
<td>1.0%</td>
</tr>
<tr>
<td>Total</td>
<td>685</td>
<td>707</td>
<td>22</td>
<td>3.2%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>31,208</td>
<td>30,612</td>
<td>-596</td>
<td>-1.9%</td>
</tr>
<tr>
<td>Women</td>
<td>28,339</td>
<td>28,382</td>
<td>43</td>
<td>0.2%</td>
</tr>
<tr>
<td>GRAND TOTAL</td>
<td>59,547</td>
<td>58,994</td>
<td>-553</td>
<td>-0.9%</td>
</tr>
</tbody>
</table>
## Table 2

### Undergraduate

<table>
<thead>
<tr>
<th></th>
<th>NFQF</th>
<th>New Transfers</th>
<th>Continuing</th>
<th>Former</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Columbus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>7,098</td>
<td>1,715</td>
<td>29,638</td>
<td>40,538</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>6,148</td>
<td>1,757</td>
<td>30,179</td>
<td>40,122</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>-950</td>
<td>42</td>
<td>-541</td>
<td>-416</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>-13.4%</td>
<td>2.4%</td>
<td>1.6%</td>
<td>-2.3%</td>
<td></td>
</tr>
<tr>
<td><strong>Non-Columbus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>1,624</td>
<td>631</td>
<td>2,847</td>
<td>486</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>2,039</td>
<td>543</td>
<td>2,723</td>
<td>506</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>415</td>
<td>-88</td>
<td>-124</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>25.6%</td>
<td>-13.9%</td>
<td>-4.4%</td>
<td>4.1%</td>
<td></td>
</tr>
<tr>
<td><strong>Total Undergraduate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>8,722</td>
<td>2,346</td>
<td>32,485</td>
<td>46,126</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>8,187</td>
<td>2,300</td>
<td>32,902</td>
<td>45,933</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>-535</td>
<td>-46</td>
<td>-417</td>
<td>-193</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>-6.1%</td>
<td>-2.0%</td>
<td>1.3%</td>
<td>-1.1%</td>
<td></td>
</tr>
</tbody>
</table>

### Postbaccalaureate Professional

<table>
<thead>
<tr>
<th></th>
<th>New to OSU</th>
<th>New from OSU</th>
<th>Continuing</th>
<th>Former</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Columbus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>450</td>
<td>293</td>
<td>1,984</td>
<td>16</td>
<td>2,743</td>
</tr>
<tr>
<td>AU '89</td>
<td>461</td>
<td>254</td>
<td>1,978</td>
<td>15</td>
<td>2,708</td>
</tr>
<tr>
<td>Change</td>
<td>11</td>
<td>-39</td>
<td>-6</td>
<td>-1</td>
<td>-35</td>
</tr>
<tr>
<td>% Change</td>
<td>2.4%</td>
<td>-13.3%</td>
<td>-0.3%</td>
<td>-6.3%</td>
<td></td>
</tr>
</tbody>
</table>

### Graduate

<table>
<thead>
<tr>
<th></th>
<th>New to OSU</th>
<th>New from OSU</th>
<th>Continuing</th>
<th>Former</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Columbus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>1,630</td>
<td>847</td>
<td>7,084</td>
<td>827</td>
<td>10,388</td>
</tr>
<tr>
<td>AU '89</td>
<td>1,673</td>
<td>744</td>
<td>6,972</td>
<td>676</td>
<td>10,653</td>
</tr>
<tr>
<td>Change</td>
<td>43</td>
<td>-103</td>
<td>-112</td>
<td>-151</td>
<td>-323</td>
</tr>
<tr>
<td>% Change</td>
<td>2.6%</td>
<td>-12.2%</td>
<td>-1.6%</td>
<td>-18.3%</td>
<td></td>
</tr>
<tr>
<td><strong>Non-Columbus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>24</td>
<td>59</td>
<td>117</td>
<td>90</td>
<td>290</td>
</tr>
<tr>
<td>AU '89</td>
<td>33</td>
<td>61</td>
<td>109</td>
<td>85</td>
<td>288</td>
</tr>
<tr>
<td>Change</td>
<td>9</td>
<td>2</td>
<td>-8</td>
<td>-5</td>
<td>-2</td>
</tr>
<tr>
<td>% Change</td>
<td>37.5%</td>
<td>3.4%</td>
<td>-6.8%</td>
<td>-5.6%</td>
<td></td>
</tr>
<tr>
<td><strong>Total Graduate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>1,654</td>
<td>906</td>
<td>7,201</td>
<td>917</td>
<td>10,678</td>
</tr>
<tr>
<td>AU '89</td>
<td>1,706</td>
<td>805</td>
<td>7,081</td>
<td>761</td>
<td>10,353</td>
</tr>
<tr>
<td>Change</td>
<td>52</td>
<td>-101</td>
<td>-120</td>
<td>-156</td>
<td>-325</td>
</tr>
<tr>
<td>% Change</td>
<td>3.1%</td>
<td>-11.1%</td>
<td>-1.7%</td>
<td>-17.0%</td>
<td>-3.0%</td>
</tr>
<tr>
<td>College/ School</td>
<td>AU '88</td>
<td>AU '89</td>
<td>Change Number</td>
<td>Percent</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>----------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>1,227</td>
<td>1,219</td>
<td>-8</td>
<td>-0.7%</td>
<td></td>
</tr>
<tr>
<td>Natural Resources</td>
<td>243</td>
<td>292</td>
<td>49</td>
<td>20.2%</td>
<td></td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts and Sciences, General*</td>
<td>1,509</td>
<td>1,813</td>
<td>304</td>
<td>20.1%</td>
<td></td>
</tr>
<tr>
<td>Arts and Sciences, Unknown**</td>
<td>71</td>
<td>107</td>
<td>36</td>
<td>50.7%</td>
<td></td>
</tr>
<tr>
<td>The Arts</td>
<td>714</td>
<td>719</td>
<td>5</td>
<td>0.7%</td>
<td></td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>855</td>
<td>819</td>
<td>-36</td>
<td>-4.2%</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>1,167</td>
<td>1,356</td>
<td>189</td>
<td>16.2%</td>
<td></td>
</tr>
<tr>
<td>Journalism</td>
<td>1,240</td>
<td>852</td>
<td>-388</td>
<td>-31.3%</td>
<td></td>
</tr>
<tr>
<td>Mathematical and Physical Sciences</td>
<td>598</td>
<td>591</td>
<td>-7</td>
<td>-1.2%</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>2,747</td>
<td>3,138</td>
<td>391</td>
<td>14.2%</td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>3,298</td>
<td>3,207</td>
<td>-91</td>
<td>-2.8%</td>
<td></td>
</tr>
<tr>
<td>Continuing Education</td>
<td>2,157</td>
<td>1,876</td>
<td>-281</td>
<td>-13.0%</td>
<td></td>
</tr>
<tr>
<td>Dentistry</td>
<td>447</td>
<td>440</td>
<td>-7</td>
<td>-1.6%</td>
<td></td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>84</td>
<td>95</td>
<td>11</td>
<td>13.1%</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>1,579</td>
<td>1,507</td>
<td>-72</td>
<td>-4.6%</td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>4,179</td>
<td>3,956</td>
<td>-223</td>
<td>-5.3%</td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td>529</td>
<td>495</td>
<td>-34</td>
<td>-6.4%</td>
<td></td>
</tr>
<tr>
<td>Graduate School</td>
<td>10,388</td>
<td>10,065</td>
<td>-323</td>
<td>-3.1%</td>
<td></td>
</tr>
<tr>
<td>Human Ecology</td>
<td>1,105</td>
<td>1,074</td>
<td>-31</td>
<td>-2.8%</td>
<td></td>
</tr>
<tr>
<td>Law</td>
<td>635</td>
<td>627</td>
<td>-8</td>
<td>-1.3%</td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td>907</td>
<td>887</td>
<td>-20</td>
<td>-2.2%</td>
<td></td>
</tr>
<tr>
<td>Allied Medical Professions</td>
<td>589</td>
<td>595</td>
<td>6</td>
<td>1.0%</td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td>504</td>
<td>499</td>
<td>-5</td>
<td>-1.0%</td>
<td></td>
</tr>
<tr>
<td>Optometry</td>
<td>234</td>
<td>231</td>
<td>-3</td>
<td>-1.3%</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctor of Pharmacy</td>
<td>13</td>
<td>17</td>
<td>4</td>
<td>30.8%</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td>469</td>
<td>475</td>
<td>6</td>
<td>1.3%</td>
<td></td>
</tr>
<tr>
<td>Social Work</td>
<td>166</td>
<td>172</td>
<td>6</td>
<td>3.6%</td>
<td></td>
</tr>
<tr>
<td>University College</td>
<td>15,508</td>
<td>15,265</td>
<td>-243</td>
<td>-1.6%</td>
<td></td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>507</td>
<td>506</td>
<td>-1</td>
<td>-0.2%</td>
<td></td>
</tr>
<tr>
<td>TOTAL COLUMBUS ENROLLMENT</td>
<td>53,669</td>
<td>52,895</td>
<td>-774</td>
<td>-1.4%</td>
<td></td>
</tr>
</tbody>
</table>

*International Studies, etc.
**Declared major not offered in Arts and Sciences
## Enrollment by Curriculum, Columbus Campus

### Autumn Quarter 1988 Compared to Autumn Quarter 1987

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Undergraduate</th>
<th>Professional</th>
<th>Graduate</th>
<th>Total</th>
<th>Change</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>University College (UVC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enrollment by Curricular Academic Program (CAP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
<td>Number</td>
</tr>
<tr>
<td>Agriculture</td>
<td>72</td>
<td>39</td>
<td>1,227</td>
<td>1,219</td>
<td>1,299</td>
<td>1,258</td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td>1,223</td>
<td>2,183</td>
<td>1,509</td>
<td>1,813</td>
<td>2,732</td>
<td>3,096</td>
</tr>
<tr>
<td>Business</td>
<td>3,361</td>
<td>3,718</td>
<td>3,298</td>
<td>3,207</td>
<td>6,659</td>
<td>6,925</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>3</td>
<td>0</td>
<td>2,157</td>
<td>1,876</td>
<td>2,160</td>
<td>1,876</td>
</tr>
<tr>
<td>Dentistry</td>
<td>41</td>
<td>22</td>
<td>84</td>
<td>95</td>
<td>125</td>
<td>117</td>
</tr>
<tr>
<td>Education</td>
<td>1,442</td>
<td>1,364</td>
<td>1,579</td>
<td>1,507</td>
<td>3,021</td>
<td>2,871</td>
</tr>
<tr>
<td>Engineering</td>
<td>1,237</td>
<td>1,145</td>
<td>4,179</td>
<td>3,295</td>
<td>5,416</td>
<td>5,101</td>
</tr>
<tr>
<td>Human Ecology</td>
<td>338</td>
<td>407</td>
<td>1,105</td>
<td>1,074</td>
<td>1,443</td>
<td>1,481</td>
</tr>
<tr>
<td>Medicine</td>
<td>734</td>
<td>724</td>
<td>589</td>
<td>595</td>
<td>1,323</td>
<td>1,319</td>
</tr>
<tr>
<td>Nursing</td>
<td>236</td>
<td>272</td>
<td>504</td>
<td>499</td>
<td>740</td>
<td>711</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>281</td>
<td>315</td>
<td>469</td>
<td>475</td>
<td>750</td>
<td>790</td>
</tr>
<tr>
<td>Social Work</td>
<td>135</td>
<td>116</td>
<td>166</td>
<td>172</td>
<td>301</td>
<td>288</td>
</tr>
<tr>
<td>Preprofessional Curricula</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Medicine</td>
<td>201</td>
<td>536</td>
<td>n/a</td>
<td>n/a</td>
<td>301</td>
<td>536</td>
</tr>
<tr>
<td>Pre-Veterinary Medicine</td>
<td>136</td>
<td>166</td>
<td>n/a</td>
<td>n/a</td>
<td>136</td>
<td>166</td>
</tr>
<tr>
<td>Undecided</td>
<td>3,538</td>
<td>2,848</td>
<td>n/a</td>
<td>n/a</td>
<td>3,538</td>
<td>2,848</td>
</tr>
<tr>
<td>TOTAL UNDERGRADUATE</td>
<td>15,508</td>
<td>15,265</td>
<td>25,030</td>
<td>24,857</td>
<td>50,538</td>
<td>50,122</td>
</tr>
</tbody>
</table>

| Professional |               |              |          |       |        |         |
| Dentistry | 447 | 440 | 447 | 440 | 447 | 440 | -7 | -1.5 |
| Optometry | 234 | 231 | 234 | 231 | 234 | 231 | -3 | -1.3 |
| Pharmacy, Doctor of Veterinary Medicine | 507 | 506 | 507 | 506 | 507 | 506 | -1 | -0.2 |
| TOTAL POSTBACCALAUREATE PROFESSIONAL | 2,743 | 2,708 | 2,743 | 2,708 | 2,743 | 2,708 | -35 | -1.3 |

**GRADUATE**

<table>
<thead>
<tr>
<th>Degree-Granting Program Enrollment</th>
<th>Combined Curriculum Employment</th>
<th>Change</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
</tr>
<tr>
<td>10,388</td>
<td>10,065</td>
<td>10,388</td>
<td>10,065</td>
</tr>
</tbody>
</table>

**TOTAL**

<table>
<thead>
<tr>
<th>Degree-Granting Program Enrollment</th>
<th>Combined Curriculum Employment</th>
<th>Change</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
</tr>
<tr>
<td>15,508</td>
<td>15,265</td>
<td>38,161</td>
<td>37,630</td>
</tr>
</tbody>
</table>

---

**Notes:**
- The table above represents enrollment data for the Autumn Quarter 1988 compared to Autumn Quarter 1987. The data includes enrollment figures for various curricula, with changes and percent changes provided.
- The categories include Undergraduate, Professional, and Graduate enrollments, with further breakdowns for specific programs.
- The change and percent change columns indicate the difference and percentage difference from the previous quarter's enrollment.

---

**Table:**

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Undergraduate</th>
<th>Professional</th>
<th>Graduate</th>
<th>Total</th>
<th>Change</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>University College (UVC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enrollment by Curricular Academic Program (CAP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
<td>Number</td>
</tr>
<tr>
<td>Agriculture</td>
<td>72</td>
<td>39</td>
<td>1,227</td>
<td>1,219</td>
<td>1,299</td>
<td>1,258</td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td>1,223</td>
<td>2,183</td>
<td>1,509</td>
<td>1,813</td>
<td>2,732</td>
<td>3,096</td>
</tr>
<tr>
<td>Business</td>
<td>3,361</td>
<td>3,718</td>
<td>3,298</td>
<td>3,207</td>
<td>6,659</td>
<td>6,925</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>3</td>
<td>0</td>
<td>2,157</td>
<td>1,876</td>
<td>2,160</td>
<td>1,876</td>
</tr>
<tr>
<td>Dentistry</td>
<td>41</td>
<td>22</td>
<td>84</td>
<td>95</td>
<td>125</td>
<td>117</td>
</tr>
<tr>
<td>Education</td>
<td>1,442</td>
<td>1,364</td>
<td>1,579</td>
<td>1,507</td>
<td>3,021</td>
<td>2,871</td>
</tr>
<tr>
<td>Engineering</td>
<td>1,237</td>
<td>1,145</td>
<td>4,179</td>
<td>3,295</td>
<td>5,416</td>
<td>5,101</td>
</tr>
<tr>
<td>Human Ecology</td>
<td>338</td>
<td>407</td>
<td>1,105</td>
<td>1,074</td>
<td>1,443</td>
<td>1,481</td>
</tr>
<tr>
<td>Medicine</td>
<td>734</td>
<td>724</td>
<td>589</td>
<td>595</td>
<td>1,323</td>
<td>1,319</td>
</tr>
<tr>
<td>Nursing</td>
<td>236</td>
<td>272</td>
<td>504</td>
<td>499</td>
<td>740</td>
<td>711</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>281</td>
<td>315</td>
<td>469</td>
<td>475</td>
<td>750</td>
<td>790</td>
</tr>
<tr>
<td>Social Work</td>
<td>135</td>
<td>116</td>
<td>166</td>
<td>172</td>
<td>301</td>
<td>288</td>
</tr>
<tr>
<td>Preprofessional Curricula</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Dentistry</td>
<td>74</td>
<td>84</td>
<td>n/a</td>
<td>n/a</td>
<td>74</td>
<td>84</td>
</tr>
<tr>
<td>Pre-Medicine</td>
<td>201</td>
<td>536</td>
<td>n/a</td>
<td>n/a</td>
<td>301</td>
<td>536</td>
</tr>
<tr>
<td>Pre-Veterinary Medicine</td>
<td>136</td>
<td>166</td>
<td>n/a</td>
<td>n/a</td>
<td>136</td>
<td>166</td>
</tr>
<tr>
<td>Undecided</td>
<td>3,538</td>
<td>2,848</td>
<td>n/a</td>
<td>n/a</td>
<td>3,538</td>
<td>2,848</td>
</tr>
<tr>
<td>TOTAL UNDERGRADUATE</td>
<td>15,508</td>
<td>15,265</td>
<td>25,030</td>
<td>24,857</td>
<td>50,538</td>
<td>50,122</td>
</tr>
</tbody>
</table>

| Professional |               |              |          |       |        |         |
| Dentistry | 447 | 440 | 447 | 440 | 447 | 440 | -7 | -1.5 |
| Optometry | 234 | 231 | 234 | 231 | 234 | 231 | -3 | -1.3 |
| Pharmacy, Doctor of Veterinary Medicine | 507 | 506 | 507 | 506 | 507 | 506 | -1 | -0.2 |
| TOTAL POSTBACCALAUREATE PROFESSIONAL | 2,743 | 2,708 | 2,743 | 2,708 | 2,743 | 2,708 | -35 | -1.3 |

**GRADUATE**

<table>
<thead>
<tr>
<th>Degree-Granting Program Enrollment</th>
<th>Combined Curriculum Employment</th>
<th>Change</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
</tr>
<tr>
<td>10,388</td>
<td>10,065</td>
<td>10,388</td>
<td>10,065</td>
</tr>
</tbody>
</table>

**TOTAL**

<table>
<thead>
<tr>
<th>Degree-Granting Program Enrollment</th>
<th>Combined Curriculum Employment</th>
<th>Change</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU '88</td>
<td>AU '89</td>
<td>AU '88</td>
<td>AU '89</td>
</tr>
<tr>
<td>15,508</td>
<td>15,265</td>
<td>38,161</td>
<td>37,630</td>
</tr>
</tbody>
</table>
### Full-Time* Headcount Credits

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>Headcount</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>33,721</td>
<td>516,961</td>
</tr>
<tr>
<td>AU '88</td>
<td>33,816</td>
<td>518,484</td>
</tr>
<tr>
<td>AU '89</td>
<td>33,816</td>
<td>518,484</td>
</tr>
<tr>
<td>% Change</td>
<td>0.3%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Change</td>
<td>95</td>
<td>1,523</td>
</tr>
<tr>
<td>Note-Columbus</td>
<td>3,831</td>
<td>58,362</td>
</tr>
<tr>
<td>AU '88</td>
<td>4,136</td>
<td>63,197</td>
</tr>
<tr>
<td>AU '89</td>
<td>4,136</td>
<td>63,197</td>
</tr>
<tr>
<td>% Change</td>
<td>8.0%</td>
<td>8.3%</td>
</tr>
<tr>
<td>Total</td>
<td>37,552</td>
<td>575,323</td>
</tr>
<tr>
<td>AU '88</td>
<td>37,952</td>
<td>581,681</td>
</tr>
<tr>
<td>AU '89</td>
<td>37,952</td>
<td>581,681</td>
</tr>
<tr>
<td>% Change</td>
<td>1.1%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

### Part-Time Headcount Credits

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>Headcount</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>2,672</td>
<td>53,449</td>
</tr>
<tr>
<td>AU '88</td>
<td>2,672</td>
<td>53,449</td>
</tr>
<tr>
<td>AU '89</td>
<td>2,672</td>
<td>53,449</td>
</tr>
<tr>
<td>% Change</td>
<td>-0.1%</td>
<td>-1.0%</td>
</tr>
<tr>
<td>Change</td>
<td>-560</td>
<td>-560</td>
</tr>
</tbody>
</table>

### Graduate Headcount Credits

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>Headcount</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>4,910</td>
<td>65,379</td>
</tr>
<tr>
<td>AU '88</td>
<td>4,987</td>
<td>65,916</td>
</tr>
<tr>
<td>AU '89</td>
<td>4,987</td>
<td>65,916</td>
</tr>
<tr>
<td>% Change</td>
<td>1.6%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Change</td>
<td>77</td>
<td>537</td>
</tr>
</tbody>
</table>

### Postbaccalaureate Professional Headcount Credits

<table>
<thead>
<tr>
<th>GRADUATE</th>
<th>Headcount</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>2,407</td>
<td>303</td>
</tr>
<tr>
<td>AU '88</td>
<td>2,407</td>
<td>303</td>
</tr>
<tr>
<td>AU '89</td>
<td>2,407</td>
<td>303</td>
</tr>
<tr>
<td>% Change</td>
<td>-0.1%</td>
<td>-1.0%</td>
</tr>
</tbody>
</table>

### Fourteenth Day Enrollment

**Table 5**

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>Headcount</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus</td>
<td>33,721</td>
<td>516,961</td>
</tr>
<tr>
<td>AU '88</td>
<td>33,816</td>
<td>518,484</td>
</tr>
<tr>
<td>AU '89</td>
<td>33,816</td>
<td>518,484</td>
</tr>
<tr>
<td>% Change</td>
<td>0.3%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Change</td>
<td>95</td>
<td>1,523</td>
</tr>
<tr>
<td>Note-Columbus</td>
<td>3,831</td>
<td>58,362</td>
</tr>
<tr>
<td>AU '88</td>
<td>4,136</td>
<td>63,197</td>
</tr>
<tr>
<td>AU '89</td>
<td>4,136</td>
<td>63,197</td>
</tr>
<tr>
<td>% Change</td>
<td>8.0%</td>
<td>8.3%</td>
</tr>
<tr>
<td>Total</td>
<td>37,552</td>
<td>575,323</td>
</tr>
<tr>
<td>AU '88</td>
<td>37,952</td>
<td>581,681</td>
</tr>
<tr>
<td>AU '89</td>
<td>37,952</td>
<td>581,681</td>
</tr>
<tr>
<td>% Change</td>
<td>1.1%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

**Notes:**

- Undergraduate students are classified as full-time if they register for 12 or more credits. Graduate or postbaccalaureate professional students are classified as full-time if they register for 10 or more credits.

- Full-time equivalency can be determined by dividing the total number of credits by 15.

---

434
## Enrollment by County at the Time of Application*

**Total University**

### Autumn Quarter 1989 Compared to Autumn Quarter 1988

#### Fourteenth Day Enrollment

<table>
<thead>
<tr>
<th>County</th>
<th>AU '88</th>
<th>AU '89</th>
<th>% Change</th>
<th>County</th>
<th>AU '88</th>
<th>AU '89</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams</td>
<td>44</td>
<td>50</td>
<td>13.6%</td>
<td>Allen</td>
<td>1,178</td>
<td>1,199</td>
<td>-1.9%</td>
</tr>
<tr>
<td>Ashland</td>
<td>344</td>
<td>327</td>
<td>-4.9%</td>
<td>Ashville</td>
<td>221</td>
<td>213</td>
<td>-3.6%</td>
</tr>
<tr>
<td>Athens</td>
<td>98</td>
<td>85</td>
<td>-13.3%</td>
<td>Auglaize</td>
<td>340</td>
<td>314</td>
<td>-7.6%</td>
</tr>
<tr>
<td>Belmont</td>
<td>324</td>
<td>305</td>
<td>-5.9%</td>
<td>Brown</td>
<td>58</td>
<td>55</td>
<td>-5.2%</td>
</tr>
<tr>
<td>Butler</td>
<td>610</td>
<td>580</td>
<td>-4.9%</td>
<td>Carroll</td>
<td>62</td>
<td>60</td>
<td>-3.2%</td>
</tr>
<tr>
<td>Champaign</td>
<td>170</td>
<td>156</td>
<td>-8.2%</td>
<td>Clark</td>
<td>463</td>
<td>439</td>
<td>-5.2%</td>
</tr>
<tr>
<td>Clermont</td>
<td>147</td>
<td>164</td>
<td>11.6%</td>
<td>Clinton</td>
<td>92</td>
<td>91</td>
<td>-1.1%</td>
</tr>
<tr>
<td>Columbiana</td>
<td>307</td>
<td>292</td>
<td>-4.9%</td>
<td>Coshocton</td>
<td>239</td>
<td>246</td>
<td>2.9%</td>
</tr>
<tr>
<td>Crawford</td>
<td>528</td>
<td>531</td>
<td>0.6%</td>
<td>Cuyahoga</td>
<td>3,903</td>
<td>3,769</td>
<td>-3.4%</td>
</tr>
<tr>
<td>Darke</td>
<td>150</td>
<td>129</td>
<td>-14.0%</td>
<td>Defiance</td>
<td>98</td>
<td>117</td>
<td>19.4%</td>
</tr>
<tr>
<td>Delaware</td>
<td>940</td>
<td>916</td>
<td>-2.6%</td>
<td>Erie</td>
<td>332</td>
<td>304</td>
<td>-8.4%</td>
</tr>
<tr>
<td>Fairfield</td>
<td>822</td>
<td>865</td>
<td>5.2%</td>
<td>Fayette</td>
<td>108</td>
<td>99</td>
<td>-6.3%</td>
</tr>
<tr>
<td>Franklin</td>
<td>15,373</td>
<td>14,643</td>
<td>-4.7%</td>
<td>Fulton</td>
<td>99</td>
<td>100</td>
<td>1.0%</td>
</tr>
<tr>
<td>Gallia</td>
<td>78</td>
<td>95</td>
<td>23.0%</td>
<td>Gallia</td>
<td>78</td>
<td>95</td>
<td>23.0%</td>
</tr>
<tr>
<td>Green</td>
<td>367</td>
<td>371</td>
<td>1.1%</td>
<td>Greene</td>
<td>501</td>
<td>488</td>
<td>-2.6%</td>
</tr>
<tr>
<td>Guernsey</td>
<td>148</td>
<td>140</td>
<td>-5.4%</td>
<td>Hamilton</td>
<td>1,631</td>
<td>1,626</td>
<td>-0.3%</td>
</tr>
<tr>
<td>Hancock</td>
<td>342</td>
<td>313</td>
<td>-8.5%</td>
<td>Hancock</td>
<td>223</td>
<td>202</td>
<td>-12.1%</td>
</tr>
<tr>
<td>Hardin</td>
<td>233</td>
<td>202</td>
<td>-13.2%</td>
<td>Harrison</td>
<td>53</td>
<td>47</td>
<td>-11.3%</td>
</tr>
<tr>
<td>Henry</td>
<td>96</td>
<td>99</td>
<td>3.1%</td>
<td>Highland</td>
<td>69</td>
<td>63</td>
<td>-8.7%</td>
</tr>
<tr>
<td>Holmes</td>
<td>66</td>
<td>83</td>
<td>25.8%</td>
<td>Holmes</td>
<td>84</td>
<td>80</td>
<td>-4.8%</td>
</tr>
<tr>
<td>Huron</td>
<td>285</td>
<td>287</td>
<td>0.7%</td>
<td>Jackson</td>
<td>64</td>
<td>70</td>
<td>9.4%</td>
</tr>
<tr>
<td>Jefferson</td>
<td>380</td>
<td>422</td>
<td>9.6%</td>
<td>Knox</td>
<td>355</td>
<td>326</td>
<td>-8.2%</td>
</tr>
<tr>
<td>Lake</td>
<td>752</td>
<td>746</td>
<td>-0.8%</td>
<td>Lawrence</td>
<td>105</td>
<td>133</td>
<td>26.7%</td>
</tr>
<tr>
<td>Licking</td>
<td>1,695</td>
<td>1,721</td>
<td>1.5%</td>
<td>Logan</td>
<td>238</td>
<td>257</td>
<td>8.0%</td>
</tr>
<tr>
<td>Lorain</td>
<td>1,024</td>
<td>961</td>
<td>-6.2%</td>
<td>Lucas</td>
<td>299</td>
<td>269</td>
<td>-9.7%</td>
</tr>
<tr>
<td>Mahoning</td>
<td>708</td>
<td>699</td>
<td>-1.0%</td>
<td>Other States and D.C.</td>
<td>5,299</td>
<td>5,772</td>
<td>8.9%</td>
</tr>
<tr>
<td>U.S. Territories</td>
<td>1,268</td>
<td>1,100</td>
<td>-13.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. Students from Foreign Countries</td>
<td>148</td>
<td>415</td>
<td>100.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Students</td>
<td>2,794</td>
<td>2,998</td>
<td>7.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Determined by domestic student's permanent address at time of application for admission. Foreign students include only nonresident aliens, regardless of permanent address given at the time of application.

Total Enrolled: 59,547

Total Enrolled: 58,994

% Change: -0.9%
## Fourteenth Day Enrollment Table

### Ohio County Enrollment Comparison

<table>
<thead>
<tr>
<th>Ohio County</th>
<th>AU '88</th>
<th>AU '89</th>
<th>% Change</th>
<th>Ohio County</th>
<th>AU '88</th>
<th>AU '89</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams</td>
<td>44</td>
<td>43</td>
<td>-2.3%</td>
<td>Marion</td>
<td>407</td>
<td>356</td>
<td>-12.5%</td>
</tr>
<tr>
<td>Allen</td>
<td>512</td>
<td>489</td>
<td>-4.5%</td>
<td>Medina</td>
<td>456</td>
<td>445</td>
<td>-2.4%</td>
</tr>
<tr>
<td>Ashland</td>
<td>208</td>
<td>195</td>
<td>-11.1%</td>
<td>Meigs</td>
<td>21</td>
<td>24</td>
<td>14.3%</td>
</tr>
<tr>
<td>Ashtabula</td>
<td>217</td>
<td>201</td>
<td>-7.4%</td>
<td>Mercer</td>
<td>147</td>
<td>153</td>
<td>4.1%</td>
</tr>
<tr>
<td>Athens</td>
<td>95</td>
<td>83</td>
<td>-12.6%</td>
<td>Miami</td>
<td>288</td>
<td>261</td>
<td>-9.4%</td>
</tr>
<tr>
<td>Auglaize</td>
<td>205</td>
<td>179</td>
<td>-12.7%</td>
<td>Monroe</td>
<td>65</td>
<td>66</td>
<td>1.5%</td>
</tr>
<tr>
<td>Belmont</td>
<td>315</td>
<td>300</td>
<td>-4.8%</td>
<td>Montgomery</td>
<td>1,640</td>
<td>1,597</td>
<td>-2.5%</td>
</tr>
<tr>
<td>Brown</td>
<td>60</td>
<td>52</td>
<td>-11.1%</td>
<td>Morgan</td>
<td>40</td>
<td>43</td>
<td>7.5%</td>
</tr>
<tr>
<td>Butler</td>
<td>62</td>
<td>56</td>
<td>-9.7%</td>
<td>Morrow</td>
<td>144</td>
<td>142</td>
<td>-1.4%</td>
</tr>
<tr>
<td>Carroll</td>
<td>55</td>
<td>53</td>
<td>-3.6%</td>
<td>Muskingum</td>
<td>340</td>
<td>334</td>
<td>-1.8%</td>
</tr>
<tr>
<td>Change</td>
<td>167</td>
<td>154</td>
<td>-7.8%</td>
<td>Mobile</td>
<td>23</td>
<td>28</td>
<td>21.7%</td>
</tr>
<tr>
<td>Clark</td>
<td>457</td>
<td>433</td>
<td>-5.3%</td>
<td>Ottawa</td>
<td>123</td>
<td>130</td>
<td>5.7%</td>
</tr>
<tr>
<td>Clermont</td>
<td>146</td>
<td>159</td>
<td>8.9%</td>
<td>Paulding</td>
<td>37</td>
<td>46</td>
<td>24.3%</td>
</tr>
<tr>
<td>Clinton</td>
<td>91</td>
<td>88</td>
<td>-3.3%</td>
<td>Perry</td>
<td>88</td>
<td>85</td>
<td>-3.4%</td>
</tr>
<tr>
<td>Columbiana</td>
<td>291</td>
<td>277</td>
<td>-4.8%</td>
<td>Pickaway</td>
<td>309</td>
<td>269</td>
<td>-12.9%</td>
</tr>
<tr>
<td>Coshocton</td>
<td>152</td>
<td>166</td>
<td>9.2%</td>
<td>Pike</td>
<td>65</td>
<td>49</td>
<td>-24.6%</td>
</tr>
<tr>
<td>Crawford</td>
<td>239</td>
<td>252</td>
<td>5.4%</td>
<td>Portage</td>
<td>230</td>
<td>200</td>
<td>-13.0%</td>
</tr>
<tr>
<td>Cuyahoga</td>
<td>3,816</td>
<td>3,686</td>
<td>-3.4%</td>
<td>Preble</td>
<td>118</td>
<td>123</td>
<td>4.3%</td>
</tr>
<tr>
<td>Darke</td>
<td>144</td>
<td>123</td>
<td>-14.6%</td>
<td>Putnam</td>
<td>146</td>
<td>165</td>
<td>-13.0%</td>
</tr>
<tr>
<td>Defiance</td>
<td>92</td>
<td>107</td>
<td>16.3%</td>
<td>Richland</td>
<td>710</td>
<td>677</td>
<td>-4.6%</td>
</tr>
<tr>
<td>Delaware</td>
<td>783</td>
<td>748</td>
<td>-4.5%</td>
<td>Ross</td>
<td>198</td>
<td>191</td>
<td>-3.5%</td>
</tr>
<tr>
<td>Erie</td>
<td>317</td>
<td>291</td>
<td>-8.2%</td>
<td>Sandusky</td>
<td>185</td>
<td>187</td>
<td>1.1%</td>
</tr>
<tr>
<td>Fairfield</td>
<td>734</td>
<td>778</td>
<td>6.0%</td>
<td>Scioto</td>
<td>230</td>
<td>231</td>
<td>-0.8%</td>
</tr>
<tr>
<td>Fayette</td>
<td>106</td>
<td>96</td>
<td>-9.4%</td>
<td>Senaca</td>
<td>238</td>
<td>236</td>
<td>-0.8%</td>
</tr>
<tr>
<td>Franklin</td>
<td>15,199</td>
<td>14,340</td>
<td>-5.9%</td>
<td>Shelby</td>
<td>160</td>
<td>157</td>
<td>-1.9%</td>
</tr>
<tr>
<td>Fulton</td>
<td>95</td>
<td>97</td>
<td>2.1%</td>
<td>Stark</td>
<td>1,113</td>
<td>1,095</td>
<td>-1.6%</td>
</tr>
<tr>
<td>Gallia</td>
<td>77</td>
<td>84</td>
<td>9.1%</td>
<td>Summit</td>
<td>1,344</td>
<td>1,340</td>
<td>-0.3%</td>
</tr>
<tr>
<td>Geauga</td>
<td>362</td>
<td>358</td>
<td>-1.1%</td>
<td>Trumbull</td>
<td>698</td>
<td>630</td>
<td>-10.7%</td>
</tr>
<tr>
<td>Greene</td>
<td>496</td>
<td>480</td>
<td>-3.2%</td>
<td>Tuscarawas</td>
<td>235</td>
<td>233</td>
<td>-0.8%</td>
</tr>
<tr>
<td>Guernsey</td>
<td>138</td>
<td>131</td>
<td>-5.1%</td>
<td>Union</td>
<td>265</td>
<td>259</td>
<td>-2.3%</td>
</tr>
<tr>
<td>Hamilton</td>
<td>1,619</td>
<td>1,617</td>
<td>-0.1%</td>
<td>Van Wert</td>
<td>98</td>
<td>94</td>
<td>-4.1%</td>
</tr>
<tr>
<td>Hancock</td>
<td>302</td>
<td>283</td>
<td>-6.3%</td>
<td>Vinton</td>
<td>9</td>
<td>8</td>
<td>-11.1%</td>
</tr>
<tr>
<td>Hardin</td>
<td>127</td>
<td>104</td>
<td>-18.1%</td>
<td>Warren</td>
<td>223</td>
<td>225</td>
<td>0.9%</td>
</tr>
<tr>
<td>Harrison</td>
<td>49</td>
<td>42</td>
<td>-14.3%</td>
<td>Washington</td>
<td>237</td>
<td>250</td>
<td>5.5%</td>
</tr>
<tr>
<td>Henry</td>
<td>93</td>
<td>96</td>
<td>3.2%</td>
<td>Wayne</td>
<td>299</td>
<td>288</td>
<td>-3.7%</td>
</tr>
<tr>
<td>Highland</td>
<td>67</td>
<td>62</td>
<td>-7.5%</td>
<td>Williams</td>
<td>102</td>
<td>108</td>
<td>5.9%</td>
</tr>
<tr>
<td>Hocking</td>
<td>64</td>
<td>80</td>
<td>25.0%</td>
<td>Wood</td>
<td>297</td>
<td>307</td>
<td>3.4%</td>
</tr>
<tr>
<td>Holmes</td>
<td>47</td>
<td>37</td>
<td>-26.2%</td>
<td>Uganda</td>
<td>91</td>
<td>97</td>
<td>6.6%</td>
</tr>
<tr>
<td>Huron</td>
<td>199</td>
<td>195</td>
<td>-2.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jackson</td>
<td>60</td>
<td>68</td>
<td>13.3%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jefferson</td>
<td>381</td>
<td>411</td>
<td>7.9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knox</td>
<td>223</td>
<td>198</td>
<td>-12.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lee</td>
<td>738</td>
<td>732</td>
<td>-0.8%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lawrence</td>
<td>104</td>
<td>132</td>
<td>26.9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licking</td>
<td>827</td>
<td>892</td>
<td>7.9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logan</td>
<td>176</td>
<td>176</td>
<td>0.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lorain</td>
<td>794</td>
<td>767</td>
<td>-3.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lucas</td>
<td>1,001</td>
<td>964</td>
<td>-3.7%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madison</td>
<td>292</td>
<td>260</td>
<td>-11.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marion</td>
<td>698</td>
<td>688</td>
<td>-1.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Determines by domestic student's permanent address at time of application for admission. Foreign students include only nonresident aliens, regardless of permanent address given at the time of application.
<table>
<thead>
<tr>
<th>State or Territory</th>
<th>AU '88</th>
<th>AU '89</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio</td>
<td>51,200</td>
<td>49,809</td>
<td>-2.7%</td>
</tr>
<tr>
<td>New York</td>
<td>651</td>
<td>712</td>
<td>9.4%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>662</td>
<td>683</td>
<td>3.2%</td>
</tr>
<tr>
<td>Michigan</td>
<td>385</td>
<td>447</td>
<td>16.1%</td>
</tr>
<tr>
<td>New Jersey</td>
<td>396</td>
<td>407</td>
<td>2.8%</td>
</tr>
<tr>
<td>Illinois</td>
<td>335</td>
<td>385</td>
<td>14.9%</td>
</tr>
<tr>
<td>California</td>
<td>274</td>
<td>309</td>
<td>12.8%</td>
</tr>
<tr>
<td>Florida</td>
<td>209</td>
<td>228</td>
<td>9.1%</td>
</tr>
<tr>
<td>Maryand</td>
<td>164</td>
<td>191</td>
<td>16.5%</td>
</tr>
<tr>
<td>Texas</td>
<td>180</td>
<td>184</td>
<td>2.2%</td>
</tr>
<tr>
<td>Indiana</td>
<td>164</td>
<td>180</td>
<td>9.8%</td>
</tr>
<tr>
<td>West Virginia</td>
<td>162</td>
<td>178</td>
<td>9.3%</td>
</tr>
<tr>
<td>Virginia</td>
<td>147</td>
<td>171</td>
<td>16.3%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>112</td>
<td>135</td>
<td>20.5%</td>
</tr>
<tr>
<td>Kentucky</td>
<td>123</td>
<td>130</td>
<td>5.7%</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>104</td>
<td>114</td>
<td>9.6%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>97</td>
<td>104</td>
<td>7.2%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>81</td>
<td>93</td>
<td>14.8%</td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>96</td>
<td>90</td>
<td>-6.3%</td>
</tr>
<tr>
<td>Missouri</td>
<td>90</td>
<td>79</td>
<td>-12.2%</td>
</tr>
<tr>
<td>Georgia</td>
<td>66</td>
<td>77</td>
<td>16.7%</td>
</tr>
<tr>
<td>Minnesota</td>
<td>60</td>
<td>66</td>
<td>10.0%</td>
</tr>
<tr>
<td>Tennessee</td>
<td>60</td>
<td>66</td>
<td>10.0%</td>
</tr>
<tr>
<td>Colorado</td>
<td>56</td>
<td>65</td>
<td>16.1%</td>
</tr>
<tr>
<td>Washington</td>
<td>50</td>
<td>51</td>
<td>2.0%</td>
</tr>
<tr>
<td>Nebraska</td>
<td>52</td>
<td>49</td>
<td>-5.0%</td>
</tr>
<tr>
<td>TOTAL U.S. STUDENTS</td>
<td>56,605</td>
<td>55,681</td>
<td>-1.6%</td>
</tr>
<tr>
<td>Ohio Students</td>
<td>51,200</td>
<td>49,809</td>
<td>-2.7%</td>
</tr>
<tr>
<td>Non-Ohio U.S. Students</td>
<td>5,405</td>
<td>5,872</td>
<td>8.6%</td>
</tr>
</tbody>
</table>

* Determined by domestic student's permanent address at time of application for admission.
**FOURTEENTH DAY ENROLLMENT**

**TABLE 9**

<table>
<thead>
<tr>
<th>State or Territory</th>
<th>AU '88</th>
<th>AU '89</th>
<th>Percent Change</th>
<th>State or Territory</th>
<th>AU '88</th>
<th>AU '89</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio</td>
<td>45,376</td>
<td>43,916</td>
<td>-3.2%</td>
<td>Arizona</td>
<td>35</td>
<td>41</td>
<td>17.1%</td>
</tr>
<tr>
<td>New York</td>
<td>648</td>
<td>709</td>
<td>9.4%</td>
<td>Louisiana</td>
<td>37</td>
<td>39</td>
<td>5.4%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>651</td>
<td>669</td>
<td>2.8%</td>
<td>Kansas</td>
<td>37</td>
<td>39</td>
<td>5.4%</td>
</tr>
<tr>
<td>Michigan</td>
<td>381</td>
<td>440</td>
<td>15.5%</td>
<td>New Hampshire</td>
<td>35</td>
<td>39</td>
<td>11.4%</td>
</tr>
<tr>
<td>New Jersey</td>
<td>393</td>
<td>402</td>
<td>2.3%</td>
<td>Utah</td>
<td>22</td>
<td>31</td>
<td>40.9%</td>
</tr>
<tr>
<td>Illinois</td>
<td>332</td>
<td>382</td>
<td>15.1%</td>
<td>New Mexico</td>
<td>25</td>
<td>26</td>
<td>4.0%</td>
</tr>
<tr>
<td>California</td>
<td>274</td>
<td>304</td>
<td>10.9%</td>
<td>District of Columbia</td>
<td>14</td>
<td>25</td>
<td>78.6%</td>
</tr>
<tr>
<td>Florida</td>
<td>207</td>
<td>225</td>
<td>8.7%</td>
<td>Oregon</td>
<td>25</td>
<td>23</td>
<td>-8.0%</td>
</tr>
<tr>
<td>Maryland</td>
<td>164</td>
<td>191</td>
<td>16.5%</td>
<td>Hawaii</td>
<td>20</td>
<td>23</td>
<td>15.0%</td>
</tr>
<tr>
<td>Texas</td>
<td>179</td>
<td>179</td>
<td>0.0%</td>
<td>Rhode Island</td>
<td>14</td>
<td>20</td>
<td>42.9%</td>
</tr>
<tr>
<td>Indiana</td>
<td>162</td>
<td>179</td>
<td>10.5%</td>
<td>Idaho</td>
<td>20</td>
<td>20</td>
<td>0.0%</td>
</tr>
<tr>
<td>West Virginia</td>
<td>158</td>
<td>174</td>
<td>10.1%</td>
<td>Delaware</td>
<td>24</td>
<td>20</td>
<td>-16.7%</td>
</tr>
<tr>
<td>Virginia</td>
<td>146</td>
<td>168</td>
<td>15.1%</td>
<td>Nevada</td>
<td>17</td>
<td>18</td>
<td>5.9%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>112</td>
<td>134</td>
<td>19.6%</td>
<td>Mississippi</td>
<td>19</td>
<td>18</td>
<td>-5.2%</td>
</tr>
<tr>
<td>Kentucky</td>
<td>121</td>
<td>126</td>
<td>4.1%</td>
<td>Maine</td>
<td>19</td>
<td>17</td>
<td>-10.5%</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>103</td>
<td>113</td>
<td>9.7%</td>
<td>Arkansas</td>
<td>18</td>
<td>17</td>
<td>-5.6%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>97</td>
<td>102</td>
<td>5.2%</td>
<td>North Dakota</td>
<td>12</td>
<td>16</td>
<td>33.3%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>81</td>
<td>91</td>
<td>12.3%</td>
<td>Montana</td>
<td>11</td>
<td>12</td>
<td>9.1%</td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>96</td>
<td>90</td>
<td>-6.5%</td>
<td>Alaska</td>
<td>9</td>
<td>10</td>
<td>11.1%</td>
</tr>
<tr>
<td>Missouri</td>
<td>90</td>
<td>79</td>
<td>-12.2%</td>
<td>Wyoming</td>
<td>11</td>
<td>9</td>
<td>-18.2%</td>
</tr>
<tr>
<td>Georgia</td>
<td>66</td>
<td>76</td>
<td>15.2%</td>
<td>South Dakota</td>
<td>12</td>
<td>9</td>
<td>-25.0%</td>
</tr>
<tr>
<td>Minnesota</td>
<td>60</td>
<td>65</td>
<td>8.3%</td>
<td>Virgin Islands</td>
<td>8</td>
<td>8</td>
<td>0.0%</td>
</tr>
<tr>
<td>Colorado</td>
<td>56</td>
<td>65</td>
<td>16.1%</td>
<td>Vermont</td>
<td>7</td>
<td>5</td>
<td>-28.6%</td>
</tr>
<tr>
<td>Tennessee</td>
<td>60</td>
<td>64</td>
<td>6.7%</td>
<td>Guam</td>
<td>2</td>
<td>2</td>
<td>0.0%</td>
</tr>
<tr>
<td>Washington</td>
<td>50</td>
<td>51</td>
<td>2.0%</td>
<td>Unknown</td>
<td>2</td>
<td>2</td>
<td>0.0%</td>
</tr>
<tr>
<td>Nebraska</td>
<td>52</td>
<td>49</td>
<td>-5.0%</td>
<td>TOTAL U.S. STUDENTS</td>
<td>50,735</td>
<td>49,712</td>
<td>-2.0%</td>
</tr>
<tr>
<td>Alabama</td>
<td>39</td>
<td>49</td>
<td>25.6%</td>
<td>Ohio Students</td>
<td>45,376</td>
<td>43,916</td>
<td>-3.2%</td>
</tr>
<tr>
<td>Iowa</td>
<td>39</td>
<td>44</td>
<td>12.8%</td>
<td>Non-Ohio U.S. Students</td>
<td>5,359</td>
<td>5,796</td>
<td>8.2%</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>40</td>
<td>44</td>
<td>10.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Carolina</td>
<td>49</td>
<td>43</td>
<td>-12.2%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Determined by domestic student's permanent address at time of application for admission.
## Enrollment of International Students

**Total University**

**Autumn Quarter 1989 Compared to Autumn Quarter 1988**

### Fourteenth Day Enrollment

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Republic of China</td>
<td>473</td>
<td>466</td>
<td>-1.5%</td>
<td>KENYA</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>237</td>
<td>226</td>
<td>-4.3%</td>
<td>LIBERIA</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>People's Republic of China</td>
<td>263</td>
<td>242</td>
<td>-7.7%</td>
<td>MALTA</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Japan</td>
<td>177</td>
<td>104</td>
<td>-41.8%</td>
<td>NORWAY</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Indonesia</td>
<td>113</td>
<td>100</td>
<td>-11.5%</td>
<td>NORTHERN IRELAND</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Malaysia</td>
<td>98</td>
<td>90</td>
<td>-8.3%</td>
<td>NORTH KOREA</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>73</td>
<td>138</td>
<td>90.5%</td>
<td>NORTH MACEDOVO</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Canada</td>
<td>64</td>
<td>63</td>
<td>1.6%</td>
<td>NORTH WEST AFRICA</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Greece</td>
<td>43</td>
<td>36</td>
<td>-16.2%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Thailand</td>
<td>54</td>
<td>41</td>
<td>-24.1%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Iran</td>
<td>48</td>
<td>40</td>
<td>-16.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Turkey</td>
<td>36</td>
<td>30</td>
<td>-16.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Pakistan</td>
<td>35</td>
<td>36</td>
<td>3.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>England</td>
<td>40</td>
<td>33</td>
<td>-17.5%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Singapore</td>
<td>26</td>
<td>23</td>
<td>-11.5%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Jordan</td>
<td>31</td>
<td>23</td>
<td>-25.8%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>France</td>
<td>27</td>
<td>21</td>
<td>-22.2%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Egypt</td>
<td>31</td>
<td>19</td>
<td>-38.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Lebanon</td>
<td>35</td>
<td>29</td>
<td>-17.1%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Philippines</td>
<td>37</td>
<td>27</td>
<td>-27.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>42</td>
<td>12</td>
<td>-71.4%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Syrian Arab Republic</td>
<td>25</td>
<td>21</td>
<td>-16.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Tunisia</td>
<td>21</td>
<td>18</td>
<td>-14.3%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>German Federal Republic</td>
<td>32</td>
<td>20</td>
<td>-37.5%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Brazil</td>
<td>21</td>
<td>20</td>
<td>4.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Mexico</td>
<td>11</td>
<td>18</td>
<td>63.6%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>16</td>
<td>17</td>
<td>5.9%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Chile</td>
<td>21</td>
<td>16</td>
<td>-23.8%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Argentina</td>
<td>15</td>
<td>16</td>
<td>6.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Hungary</td>
<td>12</td>
<td>16</td>
<td>33.3%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Cyprus</td>
<td>20</td>
<td>16</td>
<td>-20.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Uganda</td>
<td>6</td>
<td>13</td>
<td>120.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Morocco</td>
<td>8</td>
<td>13</td>
<td>62.5%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>11</td>
<td>13</td>
<td>19.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Venezuela</td>
<td>12</td>
<td>13</td>
<td>8.3%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ghana</td>
<td>10</td>
<td>13</td>
<td>30.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>17</td>
<td>12</td>
<td>-29.4%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Nigeria</td>
<td>20</td>
<td>11</td>
<td>-45.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Australia</td>
<td>11</td>
<td>11</td>
<td>0.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Colombia</td>
<td>18</td>
<td>10</td>
<td>-44.4%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>11</td>
<td>10</td>
<td>-9.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Israel</td>
<td>15</td>
<td>9</td>
<td>-40.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Poland</td>
<td>5</td>
<td>9</td>
<td>80.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ecuador</td>
<td>7</td>
<td>9</td>
<td>28.6%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Dominican Republic</td>
<td>8</td>
<td>8</td>
<td>0.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Italy</td>
<td>6</td>
<td>7</td>
<td>16.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Guinea</td>
<td>5</td>
<td>7</td>
<td>40.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Haiti</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Netherlands</td>
<td>47</td>
<td>6</td>
<td>-88.5%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Spain</td>
<td>6</td>
<td>6</td>
<td>0.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ireland</td>
<td>7</td>
<td>6</td>
<td>-14.3%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>3</td>
<td>6</td>
<td>100.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Yugoslavia</td>
<td>6</td>
<td>6</td>
<td>0.0%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Iraq</td>
<td>6</td>
<td>5</td>
<td>-16.7%</td>
<td>OMAN</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total International Students**: 2,997
### TABLE 11

#### Enrollment in Degree-Granting Programs

<table>
<thead>
<tr>
<th>Degree-Granting Programs</th>
<th>AU '88 Enrolled</th>
<th>AU '89 Enrolled</th>
<th>Percent of Total AU '88 Enrolled</th>
<th>Percent of Total AU '89 Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNDERGRADUATE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>10</td>
<td>13</td>
<td>0.8%</td>
<td>1.1%</td>
</tr>
<tr>
<td>Natural Resources</td>
<td>0</td>
<td>1</td>
<td>0.0%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts and Sciences, General</td>
<td>12</td>
<td>17</td>
<td>0.8%</td>
<td>0.9%</td>
</tr>
<tr>
<td>Arts and Sciences, Unknown</td>
<td>4</td>
<td>9</td>
<td>5.6%</td>
<td>1.3%</td>
</tr>
<tr>
<td>The Arts</td>
<td>6</td>
<td>9</td>
<td>0.8%</td>
<td>1.3%</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>4</td>
<td>7</td>
<td>0.5%</td>
<td>0.9%</td>
</tr>
<tr>
<td>Humanities</td>
<td>5</td>
<td>8</td>
<td>0.4%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Journalism</td>
<td>7</td>
<td>5</td>
<td>0.6%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Mathematical and Physical Sciences</td>
<td>9</td>
<td>9</td>
<td>1.5%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>15</td>
<td>11</td>
<td>0.5%</td>
<td>0.4%</td>
</tr>
<tr>
<td><strong>Business</strong></td>
<td>65</td>
<td>84</td>
<td>2.0%</td>
<td>2.6%</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>89</td>
<td>88</td>
<td>4.1%</td>
<td>4.7%</td>
</tr>
<tr>
<td>Education</td>
<td>1</td>
<td>0</td>
<td>1.2%</td>
<td>0.0%</td>
</tr>
<tr>
<td><strong>Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>174</td>
<td>169</td>
<td>4.2%</td>
<td>4.3%</td>
</tr>
<tr>
<td>Architecture</td>
<td>14</td>
<td>9</td>
<td>2.6%</td>
<td>1.8%</td>
</tr>
<tr>
<td><strong>Graduate School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Ecology</td>
<td>8</td>
<td>10</td>
<td>0.7%</td>
<td>0.9%</td>
</tr>
<tr>
<td><strong>Medicine</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allied Medical Professions</td>
<td>3</td>
<td>1</td>
<td>0.5%</td>
<td>0.2%</td>
</tr>
<tr>
<td><strong>Nursing</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Optometry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pharmacy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University College</td>
<td>97</td>
<td>118</td>
<td>0.6%</td>
<td>0.8%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>543</td>
<td>578</td>
<td>1.3%</td>
<td>1.4%</td>
</tr>
</tbody>
</table>

#### Enrollment by Graduate Students in Curricular Academic Programs

<table>
<thead>
<tr>
<th>Curricular Academic Programs</th>
<th>AU '88 Enrolled</th>
<th>AU '89 Enrolled</th>
<th>Percent of Total AU '88 Enrolled</th>
<th>Percent of Total AU '89 Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRADUATE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Natural Resources</td>
<td>6</td>
<td>4</td>
<td>15.0%</td>
<td>10.8%</td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts and Sciences, General</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Arts and Sciences, Unknown</td>
<td>6</td>
<td>4</td>
<td>15.0%</td>
<td>10.8%</td>
</tr>
<tr>
<td>The Arts</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Humanities</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Journalism</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Mathematical and Physical Sciences</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td><strong>Business</strong></td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Education</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td><strong>Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td>Architecture</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td><strong>Graduate School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Ecology</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td><strong>Medicine</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allied Medical Professions</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td><strong>Nursing</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Optometry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pharmacy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University College</td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>200</td>
<td>209</td>
<td>40.6%</td>
<td>43.7%</td>
</tr>
</tbody>
</table>
## Table 12

### Fourteenth Day Enrollment

<table>
<thead>
<tr>
<th></th>
<th>Columbus</th>
<th>Lima</th>
<th>Mansfield</th>
<th>Marion</th>
<th>Newark</th>
<th>Wooster</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nonresident Alien</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>2,790</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>2,794</td>
</tr>
<tr>
<td>AU '89</td>
<td>2,887</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>9</td>
<td>2,898</td>
</tr>
<tr>
<td>Change</td>
<td>97</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>104</td>
<td>104</td>
</tr>
<tr>
<td>% Change</td>
<td>3.5%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>3.5%</td>
<td>125.0%</td>
<td>3.7%</td>
</tr>
<tr>
<td><strong>Black</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>2,413</td>
<td>26</td>
<td>24</td>
<td>50</td>
<td>26</td>
<td>28</td>
<td>2,569</td>
</tr>
<tr>
<td>AU '89</td>
<td>2,571</td>
<td>26</td>
<td>30</td>
<td>51</td>
<td>24</td>
<td>27</td>
<td>2,729</td>
</tr>
<tr>
<td>Change</td>
<td>158</td>
<td>-2</td>
<td>6</td>
<td>1</td>
<td>-2</td>
<td>-1</td>
<td>160</td>
</tr>
<tr>
<td>% Change</td>
<td>6.5%</td>
<td>-7.1%</td>
<td>25.0%</td>
<td>2.0%</td>
<td>-7.1%</td>
<td>-3.6%</td>
<td>6.2%</td>
</tr>
<tr>
<td><strong>American Indian/Alaskan Native</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>88</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>101</td>
</tr>
<tr>
<td>AU '89</td>
<td>82</td>
<td>3</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>9</td>
<td>99</td>
</tr>
<tr>
<td>Change</td>
<td>-6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>-1</td>
<td>-2</td>
</tr>
<tr>
<td>% Change</td>
<td>-6.8%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>-50.0%</td>
<td>-2.0%</td>
</tr>
<tr>
<td><strong>Asian/Pacific Islander</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>1,305</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>1,322</td>
</tr>
<tr>
<td>AU '89</td>
<td>1,381</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>11</td>
<td>1</td>
<td>1,417</td>
</tr>
<tr>
<td>Change</td>
<td>76</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>0</td>
<td>95</td>
</tr>
<tr>
<td>% Change</td>
<td>5.8%</td>
<td>250.0%</td>
<td>60.0%</td>
<td>125.0%</td>
<td>120.0%</td>
<td>0.0%</td>
<td>7.2%</td>
</tr>
<tr>
<td><strong>Hispanic</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>611</td>
<td>7</td>
<td>6</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>627</td>
</tr>
<tr>
<td>AU '89</td>
<td>614</td>
<td>9</td>
<td>6</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>636</td>
</tr>
<tr>
<td>Change</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>% Change</td>
<td>0.5%</td>
<td>28.6%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>50.0%</td>
<td>1.4%</td>
<td></td>
</tr>
<tr>
<td><strong>White</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>44,161</td>
<td>1,160</td>
<td>1,107</td>
<td>987</td>
<td>1,343</td>
<td>638</td>
<td>49,396</td>
</tr>
<tr>
<td>AU '89</td>
<td>43,443</td>
<td>1,217</td>
<td>1,193</td>
<td>1,026</td>
<td>1,444</td>
<td>658</td>
<td>48,979</td>
</tr>
<tr>
<td>Change</td>
<td>-718</td>
<td>57</td>
<td>86</td>
<td>37</td>
<td>101</td>
<td>20</td>
<td>-417</td>
</tr>
<tr>
<td>% Change</td>
<td>-1.6%</td>
<td>4.9%</td>
<td>7.8%</td>
<td>3.1%</td>
<td>7.5%</td>
<td>3.1%</td>
<td>-0.8%</td>
</tr>
<tr>
<td><strong>Unknown</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>2,301</td>
<td>79</td>
<td>130</td>
<td>90</td>
<td>126</td>
<td>12</td>
<td>2,738</td>
</tr>
<tr>
<td>AU '89</td>
<td>1,917</td>
<td>51</td>
<td>94</td>
<td>71</td>
<td>95</td>
<td>8</td>
<td>2,236</td>
</tr>
<tr>
<td>Change</td>
<td>-384</td>
<td>-28</td>
<td>-36</td>
<td>-19</td>
<td>-31</td>
<td>-4</td>
<td>-502</td>
</tr>
<tr>
<td>% Change</td>
<td>-16.7%</td>
<td>-35.4%</td>
<td>-27.7%</td>
<td>-21.1%</td>
<td>-24.6%</td>
<td>-33.3%</td>
<td>-18.3%</td>
</tr>
<tr>
<td><strong>TOTAL UNIVERSITY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>53,669</td>
<td>1,276</td>
<td>1,277</td>
<td>1,137</td>
<td>1,503</td>
<td>685</td>
<td>59,547</td>
</tr>
<tr>
<td>AU '89</td>
<td>52,095</td>
<td>1,313</td>
<td>1,126</td>
<td>1,161</td>
<td>1,582</td>
<td>707</td>
<td>56,994</td>
</tr>
<tr>
<td>Change</td>
<td>-774</td>
<td>-37</td>
<td>59</td>
<td>24</td>
<td>79</td>
<td>22</td>
<td>-553</td>
</tr>
<tr>
<td>% Change</td>
<td>-1.4%</td>
<td>2.9%</td>
<td>4.6%</td>
<td>2.1%</td>
<td>5.3%</td>
<td>3.2%</td>
<td>-0.9%</td>
</tr>
<tr>
<td>Nonresident Alien</td>
<td>Undergraduate</td>
<td>Post-baccalaureate</td>
<td>Graduate</td>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------</td>
<td>--------------------</td>
<td>----------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NFQF</td>
<td>Other</td>
<td>Total</td>
<td>Professional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>24</td>
<td>523</td>
<td>547</td>
<td>12</td>
<td>2,235</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>34</td>
<td>555</td>
<td>589</td>
<td>13</td>
<td>2,296</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>10</td>
<td>32</td>
<td>42</td>
<td>1</td>
<td>61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>41.7%</td>
<td>6.1%</td>
<td>7.7%</td>
<td>8.3%</td>
<td>2.7%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.7%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>AU '88</td>
<td>482</td>
<td>1,507</td>
<td>1,989</td>
<td>123</td>
<td>457</td>
<td>2,569</td>
</tr>
<tr>
<td>AU '89</td>
<td>543</td>
<td>1,543</td>
<td>2,086</td>
<td>142</td>
<td>501</td>
<td>2,729</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>61</td>
<td>36</td>
<td>97</td>
<td>19</td>
<td>44</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>12.7%</td>
<td>2.4%</td>
<td>4.9%</td>
<td>15.4%</td>
<td>9.6%</td>
<td>6.2%</td>
<td></td>
</tr>
<tr>
<td>American Indian/Alaskan Native</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>13</td>
<td>57</td>
<td>70</td>
<td>7</td>
<td>24</td>
<td>101</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>14</td>
<td>52</td>
<td>66</td>
<td>9</td>
<td>24</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>1</td>
<td>-5</td>
<td>-4</td>
<td>2</td>
<td>0</td>
<td>-2</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>7.7%</td>
<td>-8.8%</td>
<td>-5.7%</td>
<td>28.6%</td>
<td>0.0%</td>
<td>-2.0%</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>171</td>
<td>813</td>
<td>984</td>
<td>130</td>
<td>208</td>
<td>1,322</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>189</td>
<td>907</td>
<td>1,096</td>
<td>142</td>
<td>179</td>
<td>1,417</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>18</td>
<td>94</td>
<td>112</td>
<td>12</td>
<td>-29</td>
<td>95</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>10.5%</td>
<td>11.6%</td>
<td>11.4%</td>
<td>9.2%</td>
<td>-13.9%</td>
<td>7.2%</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>96</td>
<td>356</td>
<td>452</td>
<td>44</td>
<td>131</td>
<td>627</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>129</td>
<td>357</td>
<td>486</td>
<td>38</td>
<td>112</td>
<td>636</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>33</td>
<td>1</td>
<td>34</td>
<td>-6</td>
<td>-19</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>34.4%</td>
<td>0.3%</td>
<td>7.5%</td>
<td>-13.6%</td>
<td>-14.5%</td>
<td>1.4%</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>AU '88</td>
<td>7,820</td>
<td>32,383</td>
<td>40,203</td>
<td>2,370</td>
<td>6,823</td>
<td>49,396</td>
</tr>
<tr>
<td>AU '89</td>
<td>7,200</td>
<td>32,857</td>
<td>40,057</td>
<td>2,311</td>
<td>6,611</td>
<td>48,979</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>-620</td>
<td>474</td>
<td>-146</td>
<td>-59</td>
<td>-212</td>
<td>-417</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>-7.9%</td>
<td>1.5%</td>
<td>-0.4%</td>
<td>-2.5%</td>
<td>-3.1%</td>
<td>-0.6%</td>
<td></td>
</tr>
<tr>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>116</td>
<td>1,765</td>
<td>1,881</td>
<td>57</td>
<td>800</td>
<td>2,738</td>
<td></td>
</tr>
<tr>
<td>AU '89</td>
<td>78</td>
<td>1,475</td>
<td>1,553</td>
<td>53</td>
<td>630</td>
<td>2,236</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td>-38</td>
<td>-290</td>
<td>-328</td>
<td>-4</td>
<td>-170</td>
<td>-502</td>
<td></td>
</tr>
<tr>
<td>% Change</td>
<td>-32.6%</td>
<td>-16.4%</td>
<td>-17.4%</td>
<td>-7.0%</td>
<td>-21.3%</td>
<td>-18.3%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL UNIVERSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU '88</td>
</tr>
<tr>
<td>AU '89</td>
</tr>
<tr>
<td>Change</td>
</tr>
<tr>
<td>% Change</td>
</tr>
</tbody>
</table>
### Fourteenth Day Enrollment

<table>
<thead>
<tr>
<th>Enrollment by Level, Source, and Race</th>
<th>Columbus Campus</th>
<th>Autumn Quarter 1989 Compared to Autumn Quarter 1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>TABLE 14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Undergraduate  
| Total | 2,235 | 2,790 |
| MFQF  |       |       |
| MFQF  |       |       |
| Other |       |       |
| Other |       |       |
| Total |       |       |

#### Post-Graduate  
| Professional | 61 | 97 |
| Graduate     |    |    |
| Graduate     |    |    |
| TOTAL        |    |    |

| Nonresident Alien | 2,235 | 2,790 |
| AU '88           | 23    | 520   |
| AU '89           | 34    | 544   |
| Change           | 11    | 24    |
| % Change         | 47.0% | 4.6%  |

| Black            | 2,413 | 2,571 |
| AU '88           | 447   | 1,390 |
| AU '89           | 486   | 1,449 |
| Change           | 39    | 59    |
| % Change         | 8.7%  | 4.2%  |

| American Indian/Alaskan Native | 2,887 | 3,138 |
| AU '88 | 11 | 48 | 59 | 7 | 22 | 88 |
| AU '89 | 10 | 41 | 51 | 9 | 22 | 82 |
| Change | -1 | -7 | -8 | 2 | 0 | -6 |
| % Change | -9.1% | -14.6% | -13.6% | 28.6% | 0.0% | -6.6% |

| Asian/Pacific Islander | 1,305 | 1,381 |
| AU '88 | 164 | 803 | 967 | 130 | 208 | 1,305 |
| AU '89 | 165 | 895 | 1,060 | 142 | 179 | 1,381 |
| Change | -1 | 92 | 93 | 12 | -29 | 76 |
| % Change | 0.6% | 11.5% | 9.6% | 9.2% | -13.9% | 5.8% |

| Hispanic       | 611 | 614 |
| AU '88        | 94  | 342 | 436 | 44 | 131 | 611 |
| AU '89        | 118 | 346 | 464 | 38 | 112 | 614 |
| Change        | 24  | 4   | 28  | -6 | -19 | 3 |
| % Change      | 25.5% | 1.2% | 6.4% | -13.6% | -14.5% | 0.5% |

| White          | 44,161 | 43,443 |
| AU '88        | 6,279 | 28,922 | 35,201 | 2,370 | 6,590 | 44,161 |
| AU '89        | 5,274 | 29,479 | 34,753 | 2,311 | 6,379 | 43,443 |
| Change        | -1005 | 557 | 448 | -59 | -211 | -718 |
| % Change      | -16.0% | 1.9% | -1.3% | -2.5% | -3.2% | -1.6% |

| Unknown        | 2,301 | 1,917 |
| AU '88        | 80   | 1,415 | 1,495 | 57 | 749 | 2,301 |
| AU '89        | 61   | 1,220 | 1,281 | 53 | 583 | 1,917 |
| Change        | -19  | -195 | -214 | -4 | -166 | -384 |
| % Change      | -23.8% | -13.8% | -14.3% | -7.0% | -22.2% | -16.7% |

### Columbus Campus

| AU '88 | 53,669 | 10,388 | 63,057 |
| AU '89 | 52,895 | 10,085 | 62,980 |
| Change | 54     | -303  | 62,687 |
| % Change | 0.8% | -1.5% | 1.0% |

---

**443**
<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Postbaccalaureate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ohio Resident</td>
<td>Not Ohio Resident</td>
</tr>
<tr>
<td>Nonresident</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>547</td>
<td>547</td>
</tr>
<tr>
<td>AU '89</td>
<td>589</td>
<td>589</td>
</tr>
<tr>
<td>Change</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>% Change</td>
<td>7.7%</td>
<td>7.7%</td>
</tr>
<tr>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>1,897</td>
<td>92</td>
</tr>
<tr>
<td>AU '89</td>
<td>1,975</td>
<td>111</td>
</tr>
<tr>
<td>Change</td>
<td>78</td>
<td>19</td>
</tr>
<tr>
<td>% Change</td>
<td>4.1%</td>
<td>20.7%</td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>65</td>
<td>5</td>
</tr>
<tr>
<td>AU '89</td>
<td>62</td>
<td>4</td>
</tr>
<tr>
<td>Change</td>
<td>-3</td>
<td>-1</td>
</tr>
<tr>
<td>% Change</td>
<td>-4.6%</td>
<td>-20.0%</td>
</tr>
<tr>
<td>Hispanic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>384</td>
<td>68</td>
</tr>
<tr>
<td>AU '89</td>
<td>402</td>
<td>84</td>
</tr>
<tr>
<td>Change</td>
<td>18</td>
<td>16</td>
</tr>
<tr>
<td>% Change</td>
<td>4.7%</td>
<td>23.5%</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>38,382</td>
<td>1,821</td>
</tr>
<tr>
<td>AU '89</td>
<td>38,138</td>
<td>1,919</td>
</tr>
<tr>
<td>Change</td>
<td>-244</td>
<td>-98</td>
</tr>
<tr>
<td>% Change</td>
<td>-0.6%</td>
<td>5.4%</td>
</tr>
<tr>
<td>Unknown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU '88</td>
<td>1,847</td>
<td>34</td>
</tr>
<tr>
<td>AU '89</td>
<td>1,511</td>
<td>42</td>
</tr>
<tr>
<td>Change</td>
<td>336</td>
<td>8</td>
</tr>
<tr>
<td>% Change</td>
<td>-18.2%</td>
<td>23.5%</td>
</tr>
</tbody>
</table>

TOTAL UNIVERSITY

<table>
<thead>
<tr>
<th></th>
<th>Ohio Resident</th>
<th>Not Ohio Resident</th>
<th>Total</th>
<th>Ohio Resident</th>
<th>Not Ohio Resident</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU '88</td>
<td>43,482</td>
<td>2,644</td>
<td>46,126</td>
<td>2,442</td>
<td>301</td>
<td>2,743</td>
</tr>
<tr>
<td>AU '89</td>
<td>43,113</td>
<td>2,820</td>
<td>45,933</td>
<td>2,420</td>
<td>289</td>
<td>2,708</td>
</tr>
<tr>
<td>Change</td>
<td>-369</td>
<td>176</td>
<td>-545</td>
<td>22</td>
<td>-13</td>
<td>-35</td>
</tr>
<tr>
<td>% Change</td>
<td>-0.8%</td>
<td>6.7%</td>
<td>-0.4%</td>
<td>-0.9%</td>
<td>-4.3%</td>
<td>-1.3%</td>
</tr>
<tr>
<td>LEVEL AND AGE RANGE</td>
<td>TOTAL UNIVERSITY</td>
<td>FOURTEENTH DAY ENROLLMENT</td>
<td>ENROLLMENT BY FULL-TIME/PART-TIME</td>
<td>AUTUMN QUARTER 1989</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------</td>
<td>---------------------------</td>
<td>-----------------------------------</td>
<td>---------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FULL-TIME*</td>
<td>PART-TIME</td>
<td>TOTAL</td>
<td>TABLE 16</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Men</td>
<td>Women</td>
<td>Total</td>
<td>Men</td>
<td>Women</td>
<td>Total</td>
</tr>
<tr>
<td>UNDERGRADUATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 to 17</td>
<td>113</td>
<td>189</td>
<td>302</td>
<td>22</td>
<td>26</td>
<td>48</td>
</tr>
<tr>
<td>18 to 19</td>
<td>7,500</td>
<td>7,601</td>
<td>15,101</td>
<td>456</td>
<td>398</td>
<td>854</td>
</tr>
<tr>
<td>20 to 21</td>
<td>6,489</td>
<td>6,135</td>
<td>12,624</td>
<td>700</td>
<td>558</td>
<td>1,258</td>
</tr>
<tr>
<td>22 to 24</td>
<td>4,190</td>
<td>2,653</td>
<td>6,843</td>
<td>1,072</td>
<td>818</td>
<td>1,890</td>
</tr>
<tr>
<td>25 to 29</td>
<td>1,099</td>
<td>663</td>
<td>1,762</td>
<td>907</td>
<td>759</td>
<td>1,666</td>
</tr>
<tr>
<td>30 to 34</td>
<td>313</td>
<td>370</td>
<td>683</td>
<td>420</td>
<td>465</td>
<td>885</td>
</tr>
<tr>
<td>35 to 39</td>
<td>129</td>
<td>229</td>
<td>358</td>
<td>234</td>
<td>428</td>
<td>662</td>
</tr>
<tr>
<td>40 to 49</td>
<td>53</td>
<td>182</td>
<td>235</td>
<td>165</td>
<td>408</td>
<td>573</td>
</tr>
<tr>
<td>50 to 64</td>
<td>9</td>
<td>26</td>
<td>35</td>
<td>50</td>
<td>97</td>
<td>147</td>
</tr>
<tr>
<td>65 and over</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>Unknown</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>19,900</td>
<td>18,052</td>
<td>37,952</td>
<td>4,011</td>
<td>3,970</td>
<td>7,981</td>
</tr>
<tr>
<td>GRADUATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 to 17</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18 to 19</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>20 to 21</td>
<td>57</td>
<td>31</td>
<td>88</td>
<td>9</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>22 to 24</td>
<td>737</td>
<td>663</td>
<td>1,400</td>
<td>289</td>
<td>290</td>
<td>587</td>
</tr>
<tr>
<td>25 to 29</td>
<td>1,155</td>
<td>658</td>
<td>1,813</td>
<td>730</td>
<td>734</td>
<td>1,464</td>
</tr>
<tr>
<td>30 to 34</td>
<td>610</td>
<td>318</td>
<td>928</td>
<td>562</td>
<td>581</td>
<td>1,143</td>
</tr>
<tr>
<td>35 to 39</td>
<td>240</td>
<td>200</td>
<td>440</td>
<td>226</td>
<td>606</td>
<td>832</td>
</tr>
<tr>
<td>40 to 49</td>
<td>123</td>
<td>171</td>
<td>294</td>
<td>226</td>
<td>749</td>
<td>975</td>
</tr>
<tr>
<td>50 to 64</td>
<td>18</td>
<td>26</td>
<td>44</td>
<td>34</td>
<td>184</td>
<td>218</td>
</tr>
<tr>
<td>65 and over</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Unknown</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,943</td>
<td>2,068</td>
<td>5,011</td>
<td>2,180</td>
<td>3,162</td>
<td>5,342</td>
</tr>
<tr>
<td>POSTBACCALAUREATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROFESSIONAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 to 17</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18 to 19</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>20 to 21</td>
<td>51</td>
<td>59</td>
<td>110</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>22 to 24</td>
<td>839</td>
<td>557</td>
<td>1,396</td>
<td>2</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>25 to 29</td>
<td>570</td>
<td>341</td>
<td>911</td>
<td>9</td>
<td>14</td>
<td>23</td>
</tr>
<tr>
<td>30 to 34</td>
<td>66</td>
<td>95</td>
<td>161</td>
<td>1</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>35 to 39</td>
<td>23</td>
<td>40</td>
<td>63</td>
<td>3</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>40 to 49</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50 to 64</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>65 and over</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Unknown</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,566</td>
<td>1,104</td>
<td>2,670</td>
<td>12</td>
<td>26</td>
<td>38</td>
</tr>
</tbody>
</table>

* Undergraduate students are classified as full-time if they register for 12 or more credits. Graduate or postbaccalaureate professional students are classified as full-time if they register for 10 or more credits.
Page 446 is blank
APPENDIX XXIII

THE OHIO STATE UNIVERSITY LIBRARIES

Presented to the Board of Trustees, November 3, 1989
(See page 378)
Presentation To

The Ohio State University
Board of Trustees

By

William J. Studer, Director
The Ohio State University Libraries

November 3, 1989
Mission Statement - The Ohio State University Libraries

To

- acquire, organize, preserve and provide bibliographic and physical access to a comprehensive collection of literature and information sources in support of the University's mission of teaching, research and service;

- facilitate access for faculty and students to the world's vast store of recorded knowledge beyond the holdings of Ohio State's libraries;

- provide dynamic information services to assist patrons in using information sources; and

- educate users in information-seeking skills essential to independent and lifelong learning

Context: Institutional aspiration: To be the finest university in the Big Ten and one of the top five public universities nationally
Dimensions of The Ohio State University Libraries  
(Columbus Campus)*  
1987/88 Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection size:</td>
<td>4,254,266 volumes (ranks 16th among members of the Association of Research Libraries)</td>
</tr>
<tr>
<td>Serial subscriptions:</td>
<td>31,154</td>
</tr>
<tr>
<td>Microforms:</td>
<td>2,971,011</td>
</tr>
<tr>
<td>Staff (FTE):</td>
<td></td>
</tr>
<tr>
<td>Professional</td>
<td>118</td>
</tr>
<tr>
<td>Civil Service</td>
<td>210</td>
</tr>
<tr>
<td>Student</td>
<td>128</td>
</tr>
<tr>
<td>Total</td>
<td>454</td>
</tr>
<tr>
<td>Total expenditures:</td>
<td>$15,791,448</td>
</tr>
<tr>
<td>Collections:</td>
<td>5,146,512 (32.6%)</td>
</tr>
<tr>
<td>Salaries &amp; Wages:</td>
<td>8,434,918 (53.4%)</td>
</tr>
<tr>
<td>Operating:</td>
<td>2,210,018 (14%)</td>
</tr>
<tr>
<td>Number of library locations:</td>
<td>26</td>
</tr>
<tr>
<td>Square footage of all locations:</td>
<td>ca. 500,000</td>
</tr>
<tr>
<td>Seating for patrons:</td>
<td>6,620</td>
</tr>
<tr>
<td>Number of patrons entering libraries annually:</td>
<td>6 million</td>
</tr>
<tr>
<td>Items circulated (borrowed):</td>
<td>1,559,036</td>
</tr>
<tr>
<td>Items loaned to other libraries:</td>
<td>31,060</td>
</tr>
<tr>
<td>Items borrowed from other libraries:</td>
<td>13,297</td>
</tr>
<tr>
<td>Library Control System (LCS) transactions:</td>
<td>24,000,000 from 185 library terminals and 9 dial-access ports</td>
</tr>
<tr>
<td>Hours of Opening:</td>
<td>Main library open 110 hours/week</td>
</tr>
</tbody>
</table>

*Includes Law and Health Sciences Libraries
Special Strengths/Achievements/Notables of
The Ohio State University Libraries

- Pioneer in Library automation (cited in Educom Review article Summer 1989)
  The Library Control System (LCS) became operational in 1970 as circulation control system
  LCS became full online public access catalog in 1982 (first in a major library)
  LCS telephone center - allows patrons to call in, charge out materials, and have them mailed to a campus address

- User Education Program (in forefront nationally)
  Reaches ca. 25,000 students annually through UVC 100, other courses, and special work shops with some form of instruction in use of information sources and the library system
  Gateway Project (funded by two federal grants: $288,225)
  To provide computer-based guidance to finding one's way among information resources; to be available as a front-end to LCS

- Special Collections
  Thurber
  Charvat - American fiction
  Carver, Algren, Burroughs, Busch, Hule, Mitford - manuscripts/papers
  Hilandar Medieval Slavic manuscripts on microfilm (ca. 2,400 mss. from 16 countries)
  Banks' Florilegium - 734 botanical plates from the late 18th century
  Incunabula (ca. 90) - 15th century printed books
  Library for Communication and Graphic Arts (editorial/cartoon art, photographs)
  Lawrence & Lee Theatre Research Institute - microfilm archive of theatre history of the western world; scrapbooks, models; clippings; photographs, books and journals; brochures; costumes; etc., etc.
  OSU Photoarchives - 800,000 images
• Office of Preservation established in 1984

To meet challenges of materials already too brittle for further use and of acidic paper throughout the collections

State-of-the-art air conditioning in Main Library stacks (1986)

• Excellent staff - national awards; offices held; 3rd most active in publishing

• Affirmative Action

Minority fellowship program in library science (1989)

Minority librarian internship program (1989)

Four librarians from underrepresented minorities appointed to regular positions in the last 14 months (6/1/88-7/31/89) from a total of 14 appointments
How Ohio State Stands Comparatively with Libraries of the Top* Ten Publicly-Assisted Universities and the Big Ten**

<table>
<thead>
<tr>
<th>Top* Ten</th>
<th>Big Ten**</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Illinois, Urbana</td>
<td>University of Illinois, Urbana</td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>University of Wisconsin, Madison</td>
</tr>
<tr>
<td>University of Texas, Austin</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>University of California, Los Angeles</td>
<td>The Ohio State University</td>
</tr>
<tr>
<td>University of Wisconsin, Madison</td>
<td>Indiana University, Bloomington</td>
</tr>
<tr>
<td>University of Washington</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>Michigan State University</td>
</tr>
<tr>
<td>The Ohio State University</td>
<td>University of Iowa</td>
</tr>
<tr>
<td>Indiana University, Bloomington</td>
<td>Purdue University, West Lafayette</td>
</tr>
</tbody>
</table>

*Based on size of collection.

**In order by size of library collection.
## Summary Data on Libraries

The Ohio State University Libraries, Columbus contrasted with Mean Data for the Top* Ten Publicly-Assisted University Libraries in the United States and Mean Data for the Libraries of the Big Ten 1987/88

<table>
<thead>
<tr>
<th></th>
<th>Ohio State, Columbus</th>
<th>Mean of Top* Ten</th>
<th>Mean of Big Ten</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collections</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volumes Held</td>
<td>4,254,266</td>
<td>5,470,991</td>
<td>4,244,736</td>
</tr>
<tr>
<td>Volumes Added</td>
<td>96,629</td>
<td>141,060</td>
<td>108,844</td>
</tr>
<tr>
<td>(Gross)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serials Currently Received</td>
<td>31,154</td>
<td>63,515</td>
<td>41,477</td>
</tr>
<tr>
<td><strong>Staff</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Staff (FTE)</td>
<td>118</td>
<td>142</td>
<td>112</td>
</tr>
<tr>
<td>Non-Professional Staff (FTE)</td>
<td>210</td>
<td>263</td>
<td>193</td>
</tr>
<tr>
<td>Student Assistant Staff (FTE)</td>
<td>126</td>
<td>150</td>
<td>120</td>
</tr>
<tr>
<td><strong>Total Staff</strong></td>
<td>454</td>
<td>554</td>
<td>425</td>
</tr>
<tr>
<td><strong>Expenditures</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For Salaries &amp; Wages (excluding fringe benefits)</td>
<td>$8,434,918</td>
<td>$10,528,107</td>
<td>$7,620,682</td>
</tr>
<tr>
<td>For Library Materials &amp; Binding</td>
<td>$5,146,512</td>
<td>$5,866,264</td>
<td>$4,810,692</td>
</tr>
<tr>
<td>Other Operating</td>
<td>$2,210,018</td>
<td>$2,758,760</td>
<td>$1,918,503</td>
</tr>
<tr>
<td><strong>Total Expenditures</strong></td>
<td>$15,791,448</td>
<td>$19,153,131</td>
<td>$14,349,877</td>
</tr>
</tbody>
</table>

*(In order by size of collection: Illinois, Urbana; California, Berkeley; Michigan; Texas, Austin; California, Los Angeles; Wisconsin, Madison; Washington; Minnesota; Ohio State, Columbus; Indiana, Bloomington.)

All data are taken from reports of the Association of Research Libraries.
## Library Collections, Top Ten Publicly-Assisted University Libraries In The United States, 1987/88

<table>
<thead>
<tr>
<th>Institution</th>
<th>Volumes Held</th>
<th>(Rank)</th>
<th>Volumes Added (Gross)</th>
<th>(Rank)</th>
<th>Serials Currently Received</th>
<th>(Rank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois, Urbana</td>
<td>7,377,051</td>
<td>(1)</td>
<td>189,222</td>
<td>(3)</td>
<td>92,530</td>
<td>(3)</td>
</tr>
<tr>
<td>California, Berkeley</td>
<td>7,190,021</td>
<td>(2)</td>
<td>195,012</td>
<td>(2)</td>
<td>98,861</td>
<td>(1)</td>
</tr>
<tr>
<td>Michigan</td>
<td>6,133,171</td>
<td>(3)</td>
<td>130,358</td>
<td>(6)</td>
<td>67,530</td>
<td>(5)</td>
</tr>
<tr>
<td>Texas, Austin</td>
<td>5,888,776</td>
<td>(4)</td>
<td>141,903</td>
<td>(5)</td>
<td>79,392</td>
<td>(4)</td>
</tr>
<tr>
<td>California, Los Angeles</td>
<td>5,812,163</td>
<td>(5)</td>
<td>207,140</td>
<td>(1)</td>
<td>94,757</td>
<td>(2)</td>
</tr>
<tr>
<td>Wisconsin, Madison</td>
<td>4,804,386</td>
<td>(6)</td>
<td>100,070</td>
<td>(8)</td>
<td>50,913</td>
<td>(7)</td>
</tr>
<tr>
<td>Washington</td>
<td>4,764,341</td>
<td>(7)</td>
<td>162,688</td>
<td>(4)</td>
<td>55,080</td>
<td>(6)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>4,473,262</td>
<td>(8)</td>
<td>94,262</td>
<td>(10)</td>
<td>39,246</td>
<td>(8)</td>
</tr>
<tr>
<td>OHIO STATE, Columbus</td>
<td>4,254,286</td>
<td>(9)</td>
<td>96,829</td>
<td>(9)</td>
<td>31,154</td>
<td>(9)</td>
</tr>
<tr>
<td>Indiana, Bloomington</td>
<td>4,011,675</td>
<td>(10)</td>
<td>103,315</td>
<td>(7)</td>
<td>26,684</td>
<td>(10)</td>
</tr>
<tr>
<td>Mean</td>
<td>5,470,991</td>
<td></td>
<td>141,060</td>
<td></td>
<td>63,615</td>
<td></td>
</tr>
</tbody>
</table>

Ohio State Deviation from Mean

- 1,216,725

Ohio State Deviation from Illinois

- 3,122,785

Ohio State Deviation from Michigan

- 1,878,905


**Note: Data for these universities do not reflect health sciences/medical campuses.
### Library Collections, Big Ten University Libraries*

#### 1987/88

<table>
<thead>
<tr>
<th>Institution</th>
<th>Volumes Held</th>
<th>(Rank)</th>
<th>Volumes Added (Gross)</th>
<th>(Rank)</th>
<th>Serials Currently Received</th>
<th>(Rank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois,** Urbana**</td>
<td>7,377,051</td>
<td>(1)</td>
<td>189,222</td>
<td>(1)</td>
<td>92,530</td>
<td>(1)</td>
</tr>
<tr>
<td>Michigan</td>
<td>6,133,171</td>
<td>(2)</td>
<td>130,358</td>
<td>(2)</td>
<td>67,530</td>
<td>(2)</td>
</tr>
<tr>
<td>Wisconsin, Madison</td>
<td>4,804,386</td>
<td>(3)</td>
<td>100,070</td>
<td>(5)</td>
<td>50,913</td>
<td>(3)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>4,473,262</td>
<td>(4)</td>
<td>94,262</td>
<td>(6)</td>
<td>39,246</td>
<td>(4)</td>
</tr>
<tr>
<td>OHIO STATE Columbus</td>
<td>4,254,266</td>
<td>(5)</td>
<td>96,629</td>
<td>(6)</td>
<td>31,154</td>
<td>(6)</td>
</tr>
<tr>
<td>Indiana,** Bloomington</td>
<td>4,011,675</td>
<td>(6)</td>
<td>103,316</td>
<td>(4)</td>
<td>26,684</td>
<td>(8)</td>
</tr>
<tr>
<td>Northwestern</td>
<td>3,346,817</td>
<td>(7)</td>
<td>88,466</td>
<td>(9)</td>
<td>33,226</td>
<td>(5)</td>
</tr>
<tr>
<td>Michigan State**</td>
<td>3,301,739</td>
<td>(8)</td>
<td>116,564</td>
<td>(3)</td>
<td>29,556</td>
<td>(7)</td>
</tr>
<tr>
<td>Iowa</td>
<td>2,930,832</td>
<td>(9)</td>
<td>96,134</td>
<td>(7)</td>
<td>22,877</td>
<td>(9)</td>
</tr>
<tr>
<td>Purdue,** W. Lafayette</td>
<td>1,814,065</td>
<td>(10)</td>
<td>73,415</td>
<td>(10)</td>
<td>21,056</td>
<td>(10)</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
<td><strong>4,244,736</strong></td>
<td></td>
<td><strong>108,844</strong></td>
<td></td>
<td><strong>41,477</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ohio State Deviation</strong></td>
<td><strong>9,530</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>12,215</strong></td>
<td></td>
</tr>
<tr>
<td>from Mean</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>10,323</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ohio State Deviation</strong></td>
<td><strong>-3,122,785</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>92,593</strong></td>
<td></td>
</tr>
<tr>
<td>from Illinois</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>61,376</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ohio State Deviation</strong></td>
<td><strong>1,878,905</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>33,729</strong></td>
<td></td>
</tr>
<tr>
<td>from Michigan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>36,376</strong></td>
<td></td>
</tr>
</tbody>
</table>


**Note:** Data for these universities do not reflect health sciences/medical campuses.
Trends in Growth of Library Collections

<table>
<thead>
<tr>
<th>Year</th>
<th>Mean of Top Ten</th>
<th>Mean of Big Ten</th>
<th>Ohio State, Columbus</th>
</tr>
</thead>
<tbody>
<tr>
<td>1978/79</td>
<td>3.40m</td>
<td>3.50m</td>
<td>3.45m</td>
</tr>
<tr>
<td>1979/80</td>
<td>3.61m</td>
<td>3.68m</td>
<td>3.62m</td>
</tr>
<tr>
<td>1980/81</td>
<td>3.71m</td>
<td>3.78m</td>
<td>3.71m</td>
</tr>
<tr>
<td>1981/82</td>
<td>3.81m</td>
<td>3.89m</td>
<td>3.81m</td>
</tr>
<tr>
<td>1982/83</td>
<td>3.91m</td>
<td>3.98m</td>
<td>3.91m</td>
</tr>
<tr>
<td>1983/84</td>
<td>4.02m</td>
<td>4.05m</td>
<td>4.02m</td>
</tr>
<tr>
<td>1984/85</td>
<td>4.08m</td>
<td>4.06m</td>
<td>4.08m</td>
</tr>
<tr>
<td>1985/86</td>
<td>4.17m</td>
<td>4.24m</td>
<td>4.17m</td>
</tr>
<tr>
<td>1986/87</td>
<td>4.25m</td>
<td>4.25m</td>
<td>4.25m</td>
</tr>
<tr>
<td>1987/88</td>
<td>4.43m</td>
<td>5.47m</td>
<td>4.43m</td>
</tr>
</tbody>
</table>

Volumes Held (millions)
Trends in Numbers of Serials Currently Received

Serials Currently Received (thousands)

<table>
<thead>
<tr>
<th>Year</th>
<th>Mean of Top Ten</th>
<th>Mean of Big Ten</th>
<th>Ohio State, Columbus</th>
</tr>
</thead>
<tbody>
<tr>
<td>1978/79</td>
<td>59,445</td>
<td>57,015</td>
<td>58,031</td>
</tr>
<tr>
<td>1979/80</td>
<td>58,416</td>
<td>58,416</td>
<td>58,943</td>
</tr>
<tr>
<td>1980/81</td>
<td>58,943</td>
<td>58,943</td>
<td>59,523</td>
</tr>
<tr>
<td>1981/82</td>
<td>60,840</td>
<td>60,840</td>
<td>61,619</td>
</tr>
<tr>
<td>1982/83</td>
<td>63,618</td>
<td>63,618</td>
<td>64,390</td>
</tr>
<tr>
<td>1983/84</td>
<td>63,618</td>
<td>63,618</td>
<td>64,390</td>
</tr>
<tr>
<td>1984/85</td>
<td>64,390</td>
<td>64,390</td>
<td>65,158</td>
</tr>
<tr>
<td>1985/86</td>
<td>65,158</td>
<td>65,158</td>
<td>65,919</td>
</tr>
<tr>
<td>1986/87</td>
<td>65,919</td>
<td>65,919</td>
<td>66,678</td>
</tr>
<tr>
<td>1987/88</td>
<td>66,678</td>
<td>66,678</td>
<td>67,437</td>
</tr>
</tbody>
</table>
Levels of Library Expenditures, Top* Ten Publicly-Assisted University Libraries In The United States, 1987/88

<table>
<thead>
<tr>
<th>Institution</th>
<th>Educational and General Expenditures</th>
<th>(Rank)</th>
<th>Total Library Expenditures</th>
<th>(Rank)</th>
<th>Library Expenditures as Percentage of E&amp;G</th>
<th>(Rank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois, Urbana**</td>
<td>$541,935,721</td>
<td>(8)</td>
<td>$16,337,081</td>
<td>(7)</td>
<td>3.0%</td>
<td></td>
</tr>
<tr>
<td>California, Berkeley**</td>
<td>$627,584,426</td>
<td>(7)</td>
<td>$27,524,192</td>
<td>(2)</td>
<td>4.4%</td>
<td>(1)</td>
</tr>
<tr>
<td>Michigan</td>
<td>$724,781,368</td>
<td>(3)</td>
<td>$20,472,160</td>
<td>(3)</td>
<td>2.8%</td>
<td>(6)</td>
</tr>
<tr>
<td>Texas, Austin**</td>
<td>$452,538,832</td>
<td>(9)</td>
<td>$17,582,447</td>
<td>(6)</td>
<td>3.9%</td>
<td>(2/3)</td>
</tr>
<tr>
<td>California, Los Angeles</td>
<td>$919,530,137</td>
<td>(1)</td>
<td>$28,447,376</td>
<td>(1)</td>
<td>3.1%</td>
<td>(4)</td>
</tr>
<tr>
<td>Wisconsin, Madison</td>
<td>$703,522,589</td>
<td>(4)</td>
<td>$18,161,108</td>
<td>(5)</td>
<td>2.6%</td>
<td>(7)</td>
</tr>
<tr>
<td>Washington</td>
<td>$631,089,000</td>
<td>(6)</td>
<td>$15,756,741</td>
<td>(9)</td>
<td>2.5%</td>
<td>(6/9)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>$760,890,141</td>
<td>(2)</td>
<td>$18,850,330</td>
<td>(4)</td>
<td>2.5%</td>
<td>(8/9)</td>
</tr>
<tr>
<td>OHIO STATE, Columbus</td>
<td>$666,604,334</td>
<td>(5)</td>
<td>$15,791,448</td>
<td>(8)</td>
<td>2.4%</td>
<td>(10)</td>
</tr>
<tr>
<td>Indiana, Bloomington</td>
<td>$319,394,077</td>
<td>(10)</td>
<td>$12,608,425</td>
<td>(10)</td>
<td>3.9%</td>
<td>(2/3)</td>
</tr>
<tr>
<td>Mean of Top Ten</td>
<td>$634,787,065</td>
<td></td>
<td>$19,153,131</td>
<td></td>
<td>3.1%</td>
<td></td>
</tr>
<tr>
<td>Ohio State Deviation from Mean</td>
<td>+$31,817,269</td>
<td></td>
<td>-$3,361,683</td>
<td></td>
<td>-0.7%</td>
<td></td>
</tr>
<tr>
<td>Ohio State Deviation from Illinois</td>
<td>+$124,666,613</td>
<td></td>
<td>-$545,633</td>
<td></td>
<td>-0.6%</td>
<td></td>
</tr>
<tr>
<td>Ohio State Deviation from Michigan</td>
<td>-$58,177,054</td>
<td></td>
<td>-$4,680,712</td>
<td></td>
<td>-0.4%</td>
<td></td>
</tr>
</tbody>
</table>

Note: None of the "library expenditures" include fringe benefits.
**Note: Data for these universities do not reflect health sciences/medical campuses.
# Levels of Library Expenditures, Big Ten University Libraries*

**1987/88**

<table>
<thead>
<tr>
<th>Institution</th>
<th>Educational and General Expenditures</th>
<th>Rank</th>
<th>Total Library Expenditures</th>
<th>Rank</th>
<th>Library Expenditures as Percentage of E&amp;G</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois,** Urbana</td>
<td>$541,935,721</td>
<td>(5)</td>
<td>$16,337,081</td>
<td>(4)</td>
<td>3.0%</td>
<td>(3/4)</td>
</tr>
<tr>
<td>Michigan</td>
<td>$724,781,388</td>
<td>(2)</td>
<td>$20,472,160</td>
<td>(1)</td>
<td>2.8%</td>
<td>(5)</td>
</tr>
<tr>
<td>Wisconsin, Madison</td>
<td>$703,522,589</td>
<td>(3)</td>
<td>$18,161,108</td>
<td>(3)</td>
<td>2.6%</td>
<td>(6)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>$760,890,141</td>
<td>(1)</td>
<td>$18,850,330</td>
<td>(2)</td>
<td>2.5%</td>
<td>(7)</td>
</tr>
<tr>
<td>OHIO STATE, Columbus</td>
<td>$866,004,334</td>
<td>(4)</td>
<td>$15,791,448</td>
<td>(5)</td>
<td>2.4%</td>
<td>(8)</td>
</tr>
<tr>
<td>Indiana,** Bloomington</td>
<td>$319,394,077</td>
<td>(9)</td>
<td>$12,608,425</td>
<td>(6)</td>
<td>3.3%</td>
<td>(1)</td>
</tr>
<tr>
<td>Northwestern</td>
<td>$356,828,000</td>
<td>(8)</td>
<td>$10,650,409</td>
<td>(7)</td>
<td>3.0%</td>
<td>(3/4)</td>
</tr>
<tr>
<td>Michigan State**</td>
<td>$473,491,831</td>
<td>(6)</td>
<td>$10,397,545</td>
<td>(8)</td>
<td>2.2%</td>
<td>(8)</td>
</tr>
<tr>
<td>Iowa</td>
<td>$310,209,873</td>
<td>(10)</td>
<td>$9,829,382</td>
<td>(9)</td>
<td>3.2%</td>
<td>(2)</td>
</tr>
<tr>
<td>Purdue,** W. Lafayette</td>
<td>$382,424,199</td>
<td>(7)</td>
<td>$7,350,599</td>
<td>(10)</td>
<td>1.9%</td>
<td>(10)</td>
</tr>
</tbody>
</table>

| Mean of Top Ten             | $524,018,215                        |      | $14,044,849               |      | 2.75%                                    |      |
| Ohio State Deviation from Mean | +$142,586,119                     |      | +$1,746,599               |      | -0.35%                                   |      |
| Ohio State Deviation from Illinois | +$124,668,613                |      | -$545,633                 |      | -0.60%                                   |      |
| Ohio State Deviation from Michigan | -$56,177,054                  |      | -$4,680,712               |      | -0.40%                                   |      |

*In order by size of library collection. All data are taken from ARL Statistics, 1987/88 (Washington: Association of Research Libraries, 1989). Note: None of the "library expenditures" includes fringe benefits.

**Note:** Data for these universities do not reflect health sciences/medical campuses.
Trends in Level of Library Expenditures, as Percent of University Educational and General Expenditures in Top* Ten Publicly-Assisted University Libraries in the United States, the Big Ten, and at Ohio State, Columbus 1981/82 - 1987/88

- Mean of Top Ten
- Mean of Big Ten
- Ohio State, Columbus

* Based on size of library collection. All data are taken from reports of the Association of Research Libraries.
Size of Faculty and Graduate/Professional Student Community Related To Levels Of Library Expenditures

Top* Ten Publicly-Assisted University Libraries in the United States, 1987/88

<table>
<thead>
<tr>
<th>Institution</th>
<th>Full-Time Instructional Faculty (Total)</th>
<th>Rank</th>
<th>Total Library Expenditures per Full-Time Faculty Member</th>
<th>Rank</th>
<th>Graduate/Professional Students (Headcount Total)</th>
<th>Rank</th>
<th>Total Library Expenditures per Graduate/Professional Student</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois, Urbana</td>
<td>1,913</td>
<td>(2)</td>
<td>$8,540</td>
<td>(9)</td>
<td>9,275</td>
<td>(8)</td>
<td>$1,761</td>
<td>(4)</td>
</tr>
<tr>
<td>California, Berkeley**</td>
<td>1,378</td>
<td>(9)</td>
<td>$19,974</td>
<td>(2)</td>
<td>9,281</td>
<td>(7)</td>
<td>$2,966</td>
<td>(1)</td>
</tr>
<tr>
<td>Michigan</td>
<td>1,579</td>
<td>(5)</td>
<td>$12,965</td>
<td>(3)</td>
<td>12,772</td>
<td>(3)</td>
<td>$1,603</td>
<td>(5)</td>
</tr>
<tr>
<td>Texas, Austin</td>
<td>1,842</td>
<td>(3)</td>
<td>$9,545</td>
<td>(7)</td>
<td>11,548</td>
<td>(6)</td>
<td>$1,523</td>
<td>(7)</td>
</tr>
<tr>
<td>California, Los Angeles</td>
<td>1,382</td>
<td>(8)</td>
<td>$20,584</td>
<td>(1)</td>
<td>11,934</td>
<td>(5)</td>
<td>$2,384</td>
<td>(2)</td>
</tr>
<tr>
<td>Wisconsin, Madison</td>
<td>1,449</td>
<td>(7)</td>
<td>$12,534</td>
<td>(4)</td>
<td>13,591</td>
<td>(2)</td>
<td>$1,336</td>
<td>(8)</td>
</tr>
<tr>
<td>Washington</td>
<td>1,664</td>
<td>(4)</td>
<td>$9,469</td>
<td>(8)</td>
<td>8,611</td>
<td>(9)</td>
<td>$1,830</td>
<td>(3)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>1,538</td>
<td>(6)</td>
<td>$12,256</td>
<td>(5)</td>
<td>14,178</td>
<td>(1)</td>
<td>$1,330</td>
<td>(8)</td>
</tr>
<tr>
<td>OHIO STATE, Columbus</td>
<td>1,044</td>
<td>(1)</td>
<td>$8,123</td>
<td>(10)</td>
<td>12,663</td>
<td>(4)</td>
<td>$1,247</td>
<td>(10)</td>
</tr>
<tr>
<td>Indiana, Bloomington</td>
<td>1,194</td>
<td>(10)</td>
<td>$10,560</td>
<td>(6)</td>
<td>8,238</td>
<td>(10)</td>
<td>$1,531</td>
<td>(6)</td>
</tr>
</tbody>
</table>

Mean of Top Ten: 1,588 $12,455 11,209 $1,751

Ohio State Deviation from Mean: +325(+20%) -4,332(-35%) +1,454(+13%) -504(-29%)

Ohio State Deviation from Illinois: +31(+2%) -417(-5%) +3,380(+37%) -514(-29%)

Ohio State Deviation from Michigan: +365(+23%) -4,842(-37%) -104(-1%) -356(-22%)


Expenditures for serials
- 1978/79: $0.75m
- 1980/81: $1.27m
- 1982/83: $1.31m
- 1984/85: $1.87m
- 1986/87: $2.73m
- 1987/88: $3.14m

Expenditures for books and binding
- 1978/79: $0.75m
- 1980/81: $1.0m
- 1982/83: $1.53m
- 1984/85: $2.22m
- 1986/87: $2.3m
- 1987/88: $2.0m

Growth percentages:
- 1978/79 to 1979/80: 56%
- 1979/80 to 1980/81: 44%
- 1980/81 to 1981/82: 17%
- 1981/82 to 1982/83: 39%
- 1982/83 to 1983/84: 61%
Library Expenditure: Ohio State, Columbus
With the Mean of the Top Ten Publicly Assisted Universities
and the Big Ten
1987/88

Ohio State, Columbus
($15,791,448)

Mean of Top Ten
($19,153,131)

14.0%
14.0%

Operating
($2,410,019)

Salaries and Wages
($8,434,918)

33%
33%

Materials/Binding
($5,146,512)

Mean of Top Ten
($19,153,131)

14.4%

55%

Operating
($2,758,760)

Salaries and Wages
($10,528,107)

31%
55%

Materials/Binding
($5,665,264)

55.0%

30.6%

Mean of Big Ten
($14,349,877)

13.4%

53%

Operating
($1,919,503)

Salaries and Wages
($7,620,662)

34%
53%

Materials/Binding
($4,810,692)

33.5%

53.1%
Trends In Growth Of Library Staff
Size of Total Student Body Related to Levels of Library Professional Staffing Top* Ten Publicly-Assisted University Libraries in the United States, 1987/88

<table>
<thead>
<tr>
<th>Institution</th>
<th>Full-Time Students (Total) [Part-Time Students Excluded]</th>
<th>Full-Time Ratio of Library Staff to Professional Rank</th>
<th>Ratio of Full-Time Students to Professional Library Staff Rank</th>
<th>All Students (Headcount Total) Rank</th>
<th>Ratio of All Students (Headcount Total) to Professional Library Staff Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois, Urbana</td>
<td>33,185</td>
<td>(4)</td>
<td>224:1 (4/5)</td>
<td>38,970 (5)</td>
<td>263:1 (4)</td>
</tr>
<tr>
<td>California, Berkeley**</td>
<td>28,832</td>
<td>(8)</td>
<td>170:1 (2)</td>
<td>32,055 (10)</td>
<td>191:1 (2)</td>
</tr>
<tr>
<td>Michigan</td>
<td>31,575</td>
<td>(6)</td>
<td>222:1 (3)</td>
<td>35,623 (6)</td>
<td>251:1 (3)</td>
</tr>
<tr>
<td>Texas, Austin</td>
<td>40,063</td>
<td>(2)</td>
<td>292:1 (9)</td>
<td>47,743 (3)</td>
<td>348:1 (9)</td>
</tr>
<tr>
<td>California, Los Angeles</td>
<td>32,662</td>
<td>(5)</td>
<td>158:1 (1)</td>
<td>35,435 (7)</td>
<td>170:1 (1)</td>
</tr>
<tr>
<td>Wisconsin, Madison</td>
<td>36,437</td>
<td>(3)</td>
<td>252:1 (8)</td>
<td>43,368 (4)</td>
<td>315:1 (7)</td>
</tr>
<tr>
<td>Washington</td>
<td>28,864</td>
<td>(7)</td>
<td>242:1 (6)</td>
<td>33,302 (9)</td>
<td>280:1 (5)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>28,248</td>
<td>(10)</td>
<td>224:1 (4/5)</td>
<td>62,223 (1)</td>
<td>494:1 (10)</td>
</tr>
<tr>
<td>OHIO STATE, Columbus</td>
<td>42,584</td>
<td>(1)</td>
<td>361:1 (10)</td>
<td>53,115 (2)</td>
<td>450:1 (9)</td>
</tr>
<tr>
<td>Indiana, Bloomington</td>
<td>28,248</td>
<td>(9)</td>
<td>252:1 (7)</td>
<td>33,421 (8)</td>
<td>298:1 (6)</td>
</tr>
</tbody>
</table>

Mean of Top Ten: 33,083 241:1 41,526 306:1

Ohio State Deviation from Mean: +6,511 (+29%) +120:1 (+50%) +11,589 (+29%) +144:1 (+47%)

Ohio State Deviation from Illinois: +9,409 (+28%) +137:1 (+51%) +14,145 (+36%) +187:1 (+71%)

Ohio State Deviation from Michigan: +11,020 (+35%) +139:1 (+63%) +17,492 (+48%) +199:1 (+79%)

Horizon Issues/Challenges

• Physical Facilities

Library for Communication and Graphic Arts (WCVA)
Fine Arts Library (WCVA)
Science & Engineering Library (In design drawing phase - completed 1992?)
Bio-sciences/Pharmacy Library (In Parks Hall addition - architect selected)
Book Depository (High density storage) (Architect selected - ready to begin schematic design)
New Main Library (included in 1995/96 Capital Plan Budget)
Law Library (Expanded and remodeled - 1992)

• Information Technology

Ohio Library Information System (OLIS) (Central computerized union catalog of holdings of 17 Ohio state-assisted university libraries plus a variety of centrally mounted databases)
Interface OSU Libraries via the Ohio Academic Research Network (OARNET), which carries super computer traffic
Improve search power of the Library Control System by introduction of the capability to search on any key word in a bibliographic record
Test feasibility of locally mounting databases (with assistance of the Instruction and Research Computing Center) in order to provide OSU faculty and students with free access to electronic information sources via both library terminals and office/home-based personal computers
Connect all library locations to OSU’s SONNET communications system in order to facilitate the most flexible and widespread access to LCS, OLIS, and all other electronic databases made available under auspices of the Libraries
Together with the other 10 CIC libraries, establish a connection with the CIC-Net telecommunications system in order to provide ready access to each institution’s online public access catalog and to share resources speedily via facsimile transmission
Seek additional funding to complete development of the Gateway project and secure internal resources to install the system

• Strengthening Collections (including primary research resources)

Ohio State would need to double its current annual rate of collection growth - over a 22-year period - simply to attain the size of collection that the University of Michigan will have attained by that time (assuming that Michigan does not increase at all its current rate of acquisition).
• Increase staffing in order to provide the kinds and levels of services needed by OSU faculty and staff

OSU Libraries has 100 fewer FTE staff than the mean of the top ten.

• Retain and attract highly qualified staff by improving salaries

The 1988/89 mean and median salaries for OSU librarians were $32,676 and $30,300, respectively, which merited a rank of 7th and 8th among Big Ten libraries; 7th and 7th among the top ten. OSU’s position has slipped considerably since 1985/86, and improvement is required if we are to be competitive.

• Affirmative Action

Four librarians from underrepresented minorities have been hired in the last 14 months (6/1/88-7/31/89), and we have a committee working on strategies to attract additional hires. It is expected that the minority intern and minority fellowship holders will be highly potential candidates for regular appointments.

• Preservation of Collections

A Preservation self study, completed in 1986, indicated that the paper in 21% of OSU collections is brittle, while 90% is highly acidic and will eventually become brittle. Small progress has been made in microform and in-kind replacement of brittle materials, and significant progress in mending and repair operations has been made. But the scale of problem bespeaks a need for massive treatment, both through replacement of volumes in a condition beyond reclamation and deacidification of paper to preclude inevitable embrittlement.

• Excessive Cash-Basis Budgeting

To meet the Libraries basic annual budget needs for student wages, specials (graduate associates), equipment, and operating costs now requires generation of ca. $500,000 in cash supplied through programmed position vacancy credits, i.e., by deliberately holding positions open much longer than desirable.

• Integrate library strategic planning with college strategic planning

• Funding from the Private Sector

Little success has been achieved to date. The libraries have no natural constituency in what has been an essentially constituency-based capital campaign. A national advisory council has been formed to advise/assist in fund-raising; a program is being developed to solicit emeritus faculty; and it is hoped that several major donor prospects will be assigned to the Libraries for cultivation.
APPENDIX XXIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
October 20, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees November 3, 1989
(See page 379)
Endowment Composition

<table>
<thead>
<tr>
<th></th>
<th>06-30-89</th>
<th>Portfolio</th>
<th>10-20-89</th>
<th>Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>$34,629,320</td>
<td>13.98%</td>
<td>$37,490,553</td>
<td>14.22%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>-0-</td>
<td>-0-</td>
<td>13,949,480</td>
<td>(1) 5.29</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>13,552,018</td>
<td>5.47</td>
<td>14,383,789</td>
<td>5.46</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>11,475,663</td>
<td>4.63</td>
<td>13,658,576</td>
<td>5.18</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>80,168,113</td>
<td>32.35</td>
<td>30,720,666</td>
<td>11.66</td>
</tr>
<tr>
<td>Siebel</td>
<td>32,173,227</td>
<td>12.98</td>
<td>34,565,711</td>
<td>13.12</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>-0-</td>
<td>-0-</td>
<td>10,000,000</td>
<td>(2) 3.79</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>-0-</td>
<td>-0-</td>
<td>28,677,608</td>
<td>(3) 10.88</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$171,998,341</td>
<td>69.41%</td>
<td>$183,446,383</td>
<td>69.60%</td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatman's Trust</td>
<td>$23,841,580</td>
<td>9.62%</td>
<td>$23,921,037</td>
<td>9.08%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>951,048</td>
<td>0.38</td>
<td>952,715</td>
<td>0.36</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>10,243,208</td>
<td>4.13</td>
<td>10,288,994</td>
<td>3.90</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>-0-</td>
<td>-0-</td>
<td>10,121,962</td>
<td>(4) 3.84</td>
</tr>
<tr>
<td>OSU - GNMA</td>
<td>10,144,887</td>
<td>4.10</td>
<td>10,143,133</td>
<td>3.85</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,465,211</td>
<td>2.61</td>
<td>465,607</td>
<td>0.18</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>24,150,270</td>
<td>9.75</td>
<td>24,216,126</td>
<td>9.19</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$75,796,204</td>
<td>30.59%</td>
<td>$80,109,574</td>
<td>30.40%</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td>$247,794,545</td>
<td>100.00%</td>
<td>$263,555,957</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$32,503,844</td>
<td>100.00%</td>
<td>$32,702,884</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$287,298,389</td>
<td>100.00%</td>
<td>$303,258,843</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

(1) R. Meeder began as advisor on August 8, 1989 with $15,000,000.
(2) Wells Fargo EAFE began as advisor on October 2, 1989 with $10,000,000.
(3) Wells Fargo S&P 500 began as advisor on October 6, 1989 with $30,000,000.
(4) WR Lazard began as advisor on August 8, 1989 with $10,000,000.
### Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value October '88</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>3.24%</td>
<td>18.37%</td>
<td>21.61%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>0.40%</td>
<td>(7.00%)</td>
<td>(6.60%) (13)</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>2.82%</td>
<td>19.55%</td>
<td>22.37%</td>
</tr>
<tr>
<td>Nicholas-Appligate</td>
<td>1.51%</td>
<td>29.76%</td>
<td>31.27%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>5.66%</td>
<td>13.66%</td>
<td>19.32%</td>
</tr>
<tr>
<td>Siebel</td>
<td>5.13%</td>
<td>20.92%</td>
<td>26.05%</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>0.08%</td>
<td>0.00%</td>
<td>0.08% (14)</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>0.14%</td>
<td>(4.41%)</td>
<td>(4.27%) (15)</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.93%</td>
<td>22.39%</td>
<td>26.32%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Real Estate:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.85%</td>
<td>8.42%</td>
<td>12.27%</td>
</tr>
</tbody>
</table>

### Fixed Income:

<table>
<thead>
<tr>
<th></th>
<th>% Yield</th>
<th>% Change in Market Value October '88</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust</td>
<td>8.05%</td>
<td>10.36%</td>
<td>18.41%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>8.34%</td>
<td>2.37%</td>
<td>10.71%</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>8.13%</td>
<td>2.96%</td>
<td>11.09%</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>1.70%</td>
<td>1.22%</td>
<td>2.92% (13)</td>
</tr>
<tr>
<td>OSU - QMNA</td>
<td>9.81%</td>
<td>1.35%</td>
<td>11.16%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>9.20%</td>
<td>(0.43%)</td>
<td>8.77%</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>8.96%</td>
<td>1.82%</td>
<td>17.08%</td>
</tr>
<tr>
<td>Merrill Lynch Corporate/ Government Master</td>
<td>8.67%</td>
<td>3.91%</td>
<td>12.58%</td>
</tr>
<tr>
<td>Shearson Lehman Hutton Government/ Corporate Index</td>
<td>9.30%</td>
<td>2.02%</td>
<td>11.32%</td>
</tr>
</tbody>
</table>

(1) 0.0% of Chicago Corp. portfolio is made up of cash & cash equivalents.
(2) 0.3% of R. Meeder portfolio is made up of cash & cash equivalents earning 7.9%.
(3) 2.6% of Nicholas-Appligate portfolio is made up of cash & cash equivalents earning 7.9%.
(4) 1.1% of OSU Managed portfolio is made up of cash & cash equivalents earning 8.7%.
(5) 46.9% of Siebel portfolio is made up of cash & cash equivalents earning 8.6%.
(6) 4.2% of Boatmen's Trust portfolio is made up of cash & cash equivalents earning 8.6%.
(7) 1.4% of Cambridge portfolio is made up of cash & cash equivalents earning 8.6%.
(8) 1.4% of Duff & Phelps portfolio is made up of cash & cash equivalents earning 7.9%.
(9) 2.1% of WR Lazard portfolio is made up of cash & cash equivalents earning 7.9%.
(10) 1.3% of OSU-QMNA portfolio is made up of cash & cash equivalents earning 7.9%.
(11) 0.0% of OSU Managed portfolio is made up of cash & cash equivalents.
(12) 0.3% of STW Fixed Income portfolio is made up of cash & cash equivalents earning 7.9%.
(13) Reflects return from initial allocation (August 8, 1989) only.
(14) Reflects return from initial allocation (October 2, 1989) only.
(15) Reflects return from initial allocation (October 6, 1989) only.
(16) Endowment Fund Income through October 31, 1989, totaled approximately $5,011,000.
(17) Income from University Cash Investments through October 31, 1989, totaled approximately $4,897,000.

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Year to Date</th>
<th>Current Fiscal</th>
<th>Asset Allocation</th>
<th>10-20-89</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-89)</td>
<td>$287,298,389</td>
<td>Equities</td>
<td>$166,540,657</td>
<td>54.92%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>8,521,375</td>
<td>Fixed Income</td>
<td>78,562,905</td>
<td>25.90%</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(80,000)</td>
<td>Real Estate</td>
<td>39,600,000</td>
<td>13.06%</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>7,519,072</td>
<td>Cash</td>
<td>18,555,281</td>
<td>6.12%</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$303,298,843</td>
<td>Total Portfolio</td>
<td>$303,298,843</td>
<td>100.00%</td>
</tr>
</tbody>
</table>
### Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Real Estate

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>
The Ohio State University  
Common & Preferred Stock  

**Purchases Made During Period**

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>Consolidated Papers, Inc.</td>
<td>Chicago</td>
<td>40.0000</td>
<td>$40,000.00</td>
<td>$1,000.00</td>
</tr>
<tr>
<td>3,600</td>
<td>Dun &amp; Bradstreet Corp.</td>
<td>&quot;</td>
<td>55.2500</td>
<td>199,134.00</td>
<td>6,264.00</td>
</tr>
<tr>
<td>2,500</td>
<td>E-Systems, Inc.</td>
<td>&quot;</td>
<td>33.4930</td>
<td>83,895.00</td>
<td>1,250.00</td>
</tr>
<tr>
<td>2,900</td>
<td>Gerber Scientific, Inc.</td>
<td>&quot;</td>
<td>17.9390</td>
<td>52,211.60</td>
<td>348.00</td>
</tr>
<tr>
<td>4,100</td>
<td>Hewlett Packard, Inc.</td>
<td>&quot;</td>
<td>51.3750</td>
<td>210,904.00</td>
<td>1,722.00</td>
</tr>
<tr>
<td>2,200</td>
<td>Luby's Cafeterias, Inc.</td>
<td>&quot;</td>
<td>24.0000</td>
<td>52,943.00</td>
<td>1,232.00</td>
</tr>
<tr>
<td>3,500</td>
<td>NCR Corp.</td>
<td>&quot;</td>
<td>59.8040</td>
<td>209,541.50</td>
<td>4,620.00</td>
</tr>
<tr>
<td>5,100</td>
<td>RPM, Inc.</td>
<td>&quot;</td>
<td>19.5000</td>
<td>99,450.00</td>
<td>3,162.00</td>
</tr>
<tr>
<td>1,500</td>
<td>Banc One Corp.</td>
<td>Nicholas-Applegate</td>
<td>34.1250</td>
<td>51,277.50</td>
<td>1,560.00</td>
</tr>
<tr>
<td>4,600</td>
<td>Boeing Co.</td>
<td>&quot;</td>
<td>58.1563</td>
<td>267,794.98</td>
<td>5,520.00</td>
</tr>
<tr>
<td>11,000</td>
<td>Chemical Waste</td>
<td>&quot;</td>
<td>34.1250</td>
<td>51,277.50</td>
<td>1,560.00</td>
</tr>
<tr>
<td>1,000</td>
<td>Dayton Hudson Corp.</td>
<td>&quot;</td>
<td>23.3750</td>
<td>257,785.00</td>
<td>1,320.00</td>
</tr>
<tr>
<td>1,300</td>
<td>Flight Safety International, Inc.</td>
<td>&quot;</td>
<td>42.1250</td>
<td>54,840.50</td>
<td>208.00</td>
</tr>
<tr>
<td>2,600</td>
<td>Foster Wheeler, Inc.</td>
<td>&quot;</td>
<td>20.0000</td>
<td>52,156.00</td>
<td>1,144.00</td>
</tr>
<tr>
<td>9,000</td>
<td>Legent Corp.</td>
<td>&quot;</td>
<td>30.2245</td>
<td>272,104.50</td>
<td>0.00</td>
</tr>
<tr>
<td>2,500</td>
<td>Microsoft Corp.</td>
<td>&quot;</td>
<td>63.1679</td>
<td>157,919.70</td>
<td>0.00</td>
</tr>
<tr>
<td>2,500</td>
<td>Tandem Computers, Inc.</td>
<td>&quot;</td>
<td>23.6250</td>
<td>59,212.50</td>
<td>0.00</td>
</tr>
<tr>
<td>1,500</td>
<td>Telephone &amp; Data Systems, Inc.</td>
<td>&quot;</td>
<td>40.0000</td>
<td>60,090.00</td>
<td>390.00</td>
</tr>
<tr>
<td>600</td>
<td>Chemical Bank of New York Corp.*</td>
<td>OSU</td>
<td>40.5625</td>
<td>24,337.50</td>
<td>1,632.00</td>
</tr>
<tr>
<td>26,500</td>
<td>Computer Associates International, Inc.</td>
<td>Siebel</td>
<td>15.9408</td>
<td>424,162.00</td>
<td>0.00</td>
</tr>
<tr>
<td>30,400</td>
<td>Enron Oil &amp; Gas Corp.</td>
<td>&quot;</td>
<td>19.6565</td>
<td>599,426.00</td>
<td>0.00</td>
</tr>
<tr>
<td>22,000</td>
<td>Hewlett Packard, Inc.</td>
<td>&quot;</td>
<td>50.1110</td>
<td>1,103,982.00</td>
<td>9,240.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Primerica Corp.</td>
<td>&quot;</td>
<td>26.0200</td>
<td>260,900.00</td>
<td>2,800.00</td>
</tr>
</tbody>
</table>

$4,656,252.28 $44,532.00

* Gift.
## Common & Preferred Stock

### Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>Disney (Walt) Co.</td>
<td>Chicago</td>
<td>132.2500</td>
<td>$105,744.47</td>
<td>$61,077.27</td>
</tr>
<tr>
<td>2,800</td>
<td>Dun &amp; Bradstreet Corp.</td>
<td>&quot;</td>
<td>55.6250</td>
<td>155,562.80</td>
<td>63,740.92</td>
</tr>
<tr>
<td>1,000</td>
<td>Newell Corp.</td>
<td>&quot;</td>
<td>48.5000</td>
<td>13,930.03</td>
<td>9,211.19</td>
</tr>
<tr>
<td>2,000</td>
<td>Philip Morris Companies, Inc.</td>
<td>&quot;</td>
<td>44.7500</td>
<td>89,367.01</td>
<td>66,207.94</td>
</tr>
<tr>
<td>1,400</td>
<td>Neiman Marcus Group, Inc.</td>
<td>&quot;</td>
<td>21.2500</td>
<td>29,665.00</td>
<td>6,129.31</td>
</tr>
<tr>
<td>7,500</td>
<td>Rubbermaid, Inc.</td>
<td>&quot;</td>
<td>33.1628</td>
<td>248,262.70</td>
<td>30,962.10</td>
</tr>
<tr>
<td>8,500</td>
<td>Super Valu-Stores, Inc.</td>
<td>&quot;</td>
<td>26.1109</td>
<td>221,425.19</td>
<td>(31,420.11)</td>
</tr>
<tr>
<td>5,200</td>
<td>Walgreen Co.</td>
<td>&quot;</td>
<td>43.1680</td>
<td>224,154.30</td>
<td>(5,186.50)</td>
</tr>
<tr>
<td>8,500</td>
<td>Williams Companies, Inc.</td>
<td>&quot;</td>
<td>39.5000</td>
<td>335,228.80</td>
<td>71,047.30</td>
</tr>
<tr>
<td>60</td>
<td>Duke Power Co.*</td>
<td>OSU</td>
<td>51.6250</td>
<td>3,078.19</td>
<td>10.69</td>
</tr>
<tr>
<td>1,900</td>
<td>Webster Industries*</td>
<td>&quot;</td>
<td>29.0000</td>
<td>55,100.00</td>
<td>(7,480.40)</td>
</tr>
<tr>
<td>1,900</td>
<td>AMR Corp.</td>
<td>Siebel</td>
<td>102.9410</td>
<td>195,448.38</td>
<td>105,397.37</td>
</tr>
<tr>
<td>4,100</td>
<td>Federal National Mortgage Assoc.</td>
<td>&quot;</td>
<td>129.0110</td>
<td>528,640.46</td>
<td>402,964.80</td>
</tr>
</tbody>
</table>

* Gift.

Total Gain (Loss): $2,476,500.42

*Gift: $839,113.77
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>500,000</td>
<td>U.S. Treasury Bond 7.500% 11/15/16</td>
<td>Boatmen's</td>
<td>8.2722</td>
<td>8.3749</td>
<td>90.6650</td>
<td>453,325.00</td>
</tr>
<tr>
<td>3,610,000</td>
<td>U.S. Treasury Bond 0.000% 11/15/03</td>
<td>&quot;</td>
<td>0.000</td>
<td>8.5128</td>
<td>30.7180</td>
<td>1,108,919.80</td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond 8.125% 08/15/19</td>
<td>Cambridge</td>
<td>8.1581</td>
<td>8.1601</td>
<td>99.5938</td>
<td>921,242.19</td>
</tr>
<tr>
<td>1,000,000</td>
<td>California State G.O. 6.750% 10/01/04</td>
<td>STW</td>
<td>6.7663</td>
<td>6.7755</td>
<td>99.7590</td>
<td>997,590.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Triborough Bridge NY-Municipal 7.125% 01/01/19</td>
<td>&quot;</td>
<td>7.2611</td>
<td>7.2794</td>
<td>98.1250</td>
<td>981,250.00</td>
</tr>
<tr>
<td>550,000</td>
<td>U.S. Treasury Bond 7.250% 05/15/16</td>
<td>&quot;</td>
<td>7.9931</td>
<td>8.1066</td>
<td>90.7031</td>
<td>428,867.19</td>
</tr>
</tbody>
</table>

$4,961,194.18
Bonds

Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,680,000</td>
<td>U.S. Treasury Bond 0.000% 05/15/04</td>
<td>Boatmen's</td>
<td>30.1750</td>
<td>$1,110,440.00</td>
<td>$143,152.00</td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond 8.125% 08/15/19</td>
<td>Cambridge</td>
<td>99.6562</td>
<td>921,820.31</td>
<td>(2,601.57)</td>
</tr>
<tr>
<td>600,000</td>
<td>U.S. Treasury Bond 10.375% 11/15/12</td>
<td>SIW</td>
<td>120.2656</td>
<td>721,593.75</td>
<td>57,559.54</td>
</tr>
<tr>
<td>1,700,000</td>
<td>U.S. Treasury Bond 7.250% 05/15/16</td>
<td>&quot;</td>
<td>90.7812</td>
<td>1,543,281.25</td>
<td>(15,738.28)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$4,297,135.31</td>
<td>$182,371.69</td>
</tr>
</tbody>
</table>

The Ohio State University
Bonds/Notes

476
<table>
<thead>
<tr>
<th>Description</th>
<th>Yield</th>
<th>Acquired</th>
<th>Invested</th>
<th>Appraised Value</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.205 acres at 930 Rinnear Road</td>
<td>7.072</td>
<td>1962</td>
<td>$453,204</td>
<td>$1,550,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 3.36 acres at 1100 Rinnear Road</td>
<td>3.74</td>
<td>1984</td>
<td>220,000</td>
<td>2,650,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 2.453 acres at 1900 Kenny Road</td>
<td>21.84</td>
<td>1961</td>
<td>659,910</td>
<td>1,250,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1900 Kenny Road</td>
<td>17.36</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>8.81</td>
<td>1968</td>
<td>170,000</td>
<td>696,000</td>
<td>06/89</td>
</tr>
<tr>
<td>46.996 acres of land in Delaware County</td>
<td>.55</td>
<td>1971</td>
<td>100,793</td>
<td>661,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>.00</td>
<td>1973</td>
<td>29,332 (1)</td>
<td>29,332</td>
<td>N/A</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00</td>
<td>1978</td>
<td>73,554 (1)</td>
<td>73,554</td>
<td>N/A</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>.00</td>
<td>1986</td>
<td>180,000</td>
<td>282,000</td>
<td>06/89</td>
</tr>
<tr>
<td>31 acres of land, 2809 West Granville Road</td>
<td>.00</td>
<td>1962</td>
<td>160,285</td>
<td>2,894,000</td>
<td>06/89</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>.00</td>
<td>1972</td>
<td>544,398</td>
<td>4,367,000</td>
<td>06/89</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>.03</td>
<td>1968</td>
<td>310,538</td>
<td>6,853,000</td>
<td>06/89</td>
</tr>
<tr>
<td>30.529 acres of land, 3371 West Granville Road</td>
<td>.00</td>
<td>1971</td>
<td>265,079</td>
<td>2,749,000</td>
<td>06/89</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>.19</td>
<td>1966</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>06/89</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>.00</td>
<td>1965</td>
<td>24,000</td>
<td>1,080,000</td>
<td>06/89</td>
</tr>
<tr>
<td>8.597 acres of land, 3505 West Granville Road</td>
<td>.00</td>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road</td>
<td>2.94</td>
<td>1966</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>20.998 acres of land on Shier-Rings Road</td>
<td>.00</td>
<td>1978</td>
<td>241,848</td>
<td>1,135,000</td>
<td>08/89</td>
</tr>
<tr>
<td>17.92 acres of land on Ritterman Road</td>
<td>.00</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>8.08</td>
<td>1979</td>
<td>2,767,261</td>
<td>6,466,000</td>
<td>02/85</td>
</tr>
<tr>
<td>(1) Amount represents balance on loan made to Department of Aviation.</td>
<td></td>
<td></td>
<td>$11,335,827</td>
<td>$39,702,886</td>
<td></td>
</tr>
</tbody>
</table>
MEMORANDUM

Subject: Proxy Solicitations
Date: October 31, 1989
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of October 1989, the University voted twenty-three proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Amendment to fix the number of Directors;
3) Ratification of independent auditors;
4) Approval of the issuance of common stock for the purchase of another company;
5) Amendment to increase the authorized shares of common stock;
6) Amendment to increase authorized shares of common stock for an employee stock option program;
7) Approval to establish classes of directors;
8) Amendment requiring the written approval of all shareholders prior to any shareholder action taken without a meeting;
9) Approval to establish a range for the size of the Board of Directors and to empower the Board to establish said number;
10) Require that two-thirds of all shareholders approve prior to any special shareholder meetings;
11) Require that two-thirds of all shareholders approve prior to certain changes to the by-laws;
12) Approval of certain amendments to enable the by-laws to conform to Georgia Corporate Code;
13) Approval of a 1989 Executive Stock incentive plan;
14) Approval to merge and issue preferred stock in accordance to the merger;
15) Amendment to establish voting rights to a special class of stock;
16) Approval to grant specified purchase rights on preferred stock;
17) Approval to return preferred stock to "special stock" status and show the stock as authorized but not issued;
18) Adoption of a 1989 long-term incentive plan;
19) Approval for employees, of a company recently acquired, to participate immediately in the Corporate Stock Purchase plan;
20) Amendment to increase authorized shares for the incentive Stock Option Plan;
21) Ratification of a non-employee director stock option plan.

Shareholder proposals were as follows:

1) Re-affirm the corporation's political non-partisanship;  
2) Establish cumulative voting for the Board of Directors;  
3) Require annual election of all Directors;  
4) Change the required approval vote from eighty percent to two-thirds.

The University voted for all Management proposals and against the shareholder proposals. Furthermore, Management opposed all shareholder proposals.

The twenty-three corporations were:

1) Archer-Daniel Midland Company  
2) Automatic Data Processing Incorporated  
3) Bristol-Myers Company  
4) Bruno’s Incorporated  
5) Campbell Soup Company  
6) The Clorox Company  
7) Farm Credit Services of mid-America  
8) First Mississippi Corporation  
9) Flowers Industries, Incorporated  
10) Jostens Incorporated  
11) Meredith Corporation  
12) MNC Financial, Incorporated  
13) Morton International, Incorporated  
14) National Semiconductor Corporation  
15) Oracle Systems Corporation  
16) Policy Management Systems Corporation  
17) Quaker Oats Company  
18) Sara Lee Corporation
19) Seagate Technology, Incorporated
20) SCI Systems, Incorporated
21) Scientific-Atlanta, Incorporated
22) Sysco Corporation
23) Thielcor Corporation
APPENDIX XXV

THE AGRICULTURAL TECHNICAL INSTITUTE

Presented to the Agricultural Affairs Committee
November 3, 1989
(See page 395)
The Agricultural Technical Institute began operations Autumn Quarter 1972 with 199 students enrolled in eight technologies within the Associate of Applied Science Degree. The first graduating class was in 1974 and today there are over 3,000 Associate Degree graduates, most of whom are Ohio residents.

The Institute receives line item funding from the Ohio Legislature as one of Ohio's two-year technical colleges. The Board of Trustees for ATI is the OSU Board of Trustees and the Institute operates administratively as a school within the College of Agriculture. Currently there are 130 employees: 39 regular faculty, 16 specials, (part-time/full-time), 72 staff including police, secretaries and technicians, and 3 principal administrators.

Last year (1988) the Institute enrolled 685 students generating 608 FTE and served a total of 1,300 people including non-credit enrollments. This year (1989) enrollment is 707 students generating 639 FTE; and, with non-credit enrollments ATI will serve over 1,500 people. We are projecting a 5% enrollment increase for 1990 and another 5% enrollment increase for 1991.

The Institute began operations in OARDC facilities in 1972 and today has three main buildings on a 50 acre central campus plus the 1,800 acre Apple Creek Farm and leased facilities for the horse technology program at the Wayne County Fairgrounds. By comparison with similar institutions, ATI has high quality laboratories and classroom facilities. The Institute has the top teaching dairy laboratory at the applied level in the country and a substantial land laboratory at the Apple Creek Farm. The first budget of the Institute in 1972 was approximately $200,000; this year (1989) the budget will exceed $6.5 million dollars. Twenty-three percent of the income for the current budget will be derived from grants, contracts and income other than student fees and state subsidies.

In developing the applied curriculum ATI has been closely involved with industry. Successful industry internship is a graduation requirement necessitating regular faculty visits across the state to work sites and with industry leaders. The placement of graduates, according to the annual published report of the Ohio Board of Regents, is at the top in the state for institutions in Ohio. The national trend and the state's agenda for two-year institutions for workforce education is a natural undertaking for ATI.
The teaching skill of the ATI faculty is demonstrated as they successfully address the diverse populations of WeekEnd College, state prisons, evening instruction, workforce education (Rubbermaid, Rexroth, City of Wooster, Nursery Association, etc.), non-credit and short-term workshops, international education and collaborative education with high schools, corporations, trade associations and other institutions of higher education. Their skill is further evident in the success of transfer students who, by the College of Agriculture's records, perform equally as well as students beginning the baccalaureate degree at Columbus. For several years, ATI has been the single largest source of transfer students into the College of Agriculture. The Institute represents perhaps one of the College's most valuable resources in reaching out to minority students and others interested in agriculture.
Page 484 is blank
APPENDIX XXVI

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET - 1ST QUARTER REPORT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees November 3, 1989
(See page 395)
### Summary of Proposed Resources
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1989-90</th>
<th>Estimated 1989-90</th>
<th>$ Increase</th>
<th>% Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$452.39</td>
<td>$452.39</td>
<td>$.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>346.34</td>
<td>346.34</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>220.07</td>
<td>220.07</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$1,018.80</td>
<td>$1,018.80</td>
<td>$.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td>27.65</td>
<td>27.65</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>33.84</td>
<td>33.84</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$1,080.29</td>
<td>$1,080.29</td>
<td>$.00</td>
<td>.0%</td>
</tr>
</tbody>
</table>
THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET
1ST QUARTER REPORT

Summary of Proposed Uses
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1989-90</th>
<th>Estimated 1989-90</th>
<th>$ Increase</th>
<th>% Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$452.39</td>
<td>$452.39</td>
<td>$.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>346.23</td>
<td>346.23</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>220.07</td>
<td>220.07</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$1,018.69</td>
<td>$1,018.69</td>
<td>$.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Regional Campuses</td>
<td>27.42</td>
<td>27.42</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>OARDC</td>
<td>33.84</td>
<td>33.84</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Grand Totals</td>
<td>$1,079.95</td>
<td>$1,079.95</td>
<td>$.00</td>
<td>.0%</td>
</tr>
</tbody>
</table>
# THE OHIO STATE UNIVERSITY

**1989-90 CURRENT FUNDS BUDGET**

**1ST QUARTER REPORT**

## All Funds Resources Summary

(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1989-90</th>
<th>Budgeted 1989-90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$265.13</td>
<td>$0.00</td>
<td>$39.51</td>
<td>$304.64</td>
<td>$304.64</td>
</tr>
<tr>
<td>Student Fees</td>
<td>153.69</td>
<td>5.00</td>
<td>.00</td>
<td>158.69</td>
<td>158.69</td>
</tr>
<tr>
<td>Other Resources</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>17.28</td>
<td>.00</td>
<td>85.60</td>
<td>102.88</td>
<td>102.88</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>.37</td>
<td>.00</td>
<td>15.16</td>
<td>15.53</td>
<td>15.53</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>.74</td>
<td>.00</td>
<td>15.10</td>
<td>15.84</td>
<td>15.84</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>3.96</td>
<td>.00</td>
<td>57.90</td>
<td>61.86</td>
<td>61.86</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>1.55</td>
<td>.00</td>
<td>8.80</td>
<td>10.35</td>
<td>10.35</td>
</tr>
<tr>
<td>Department and University Services</td>
<td>.40</td>
<td>28.37</td>
<td>.00</td>
<td>28.77</td>
<td>28.77</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>.02</td>
<td>86.23</td>
<td>.00</td>
<td>86.25</td>
<td>86.25</td>
</tr>
<tr>
<td>Hospital Sales &amp; Services</td>
<td>.00</td>
<td>222.45</td>
<td>.00</td>
<td>222.45</td>
<td>222.45</td>
</tr>
<tr>
<td>Other Sources</td>
<td>9.25</td>
<td>4.29</td>
<td>.00</td>
<td>13.54</td>
<td>13.54</td>
</tr>
<tr>
<td>Total Other Resources</td>
<td>$33.57</td>
<td>$341.34</td>
<td>$180.56</td>
<td>$555.47</td>
<td>$555.47</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$452.39</td>
<td>$346.34</td>
<td>$220.07</td>
<td>$1,018.80</td>
<td>$1,018.80</td>
</tr>
<tr>
<td>Regional Campuses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>13.28</td>
<td>.00</td>
<td>.02</td>
<td>13.30</td>
<td>13.30</td>
</tr>
<tr>
<td>Student Fees</td>
<td>9.64</td>
<td>.13</td>
<td>.00</td>
<td>9.77</td>
<td>9.77</td>
</tr>
<tr>
<td>Other Resources</td>
<td>.62</td>
<td>1.61</td>
<td>2.35</td>
<td>4.58</td>
<td>4.58</td>
</tr>
<tr>
<td>Total Regional Campuses</td>
<td>$23.54</td>
<td>$1.74</td>
<td>$2.37</td>
<td>$27.65</td>
<td>$27.65</td>
</tr>
<tr>
<td>OARDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>.00</td>
<td>.00</td>
<td>21.70</td>
<td>21.70</td>
<td>21.70</td>
</tr>
<tr>
<td>Federal</td>
<td>.00</td>
<td>.00</td>
<td>7.60</td>
<td>7.60</td>
<td>7.60</td>
</tr>
<tr>
<td>All Other</td>
<td>.00</td>
<td>1.81</td>
<td>2.73</td>
<td>4.54</td>
<td>4.54</td>
</tr>
<tr>
<td>Total OARDC</td>
<td>9.00</td>
<td>$1.81</td>
<td>$32.05</td>
<td>$33.84</td>
<td>$33.84</td>
</tr>
<tr>
<td>Total University</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>278.41</td>
<td>.00</td>
<td>61.23</td>
<td>339.64</td>
<td>339.64</td>
</tr>
<tr>
<td>Student Fees</td>
<td>163.33</td>
<td>5.13</td>
<td>.00</td>
<td>168.46</td>
<td>168.46</td>
</tr>
<tr>
<td>Other Resources</td>
<td>34.19</td>
<td>344.76</td>
<td>193.24</td>
<td>572.19</td>
<td>572.19</td>
</tr>
<tr>
<td>Total University</td>
<td>$475.93</td>
<td>$349.89</td>
<td>$254.47</td>
<td>$1,080.29</td>
<td>$1,080.29</td>
</tr>
</tbody>
</table>
# THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET
1ST QUARTER REPORT

**All Funds Uses Summary**
*(In Millions of Dollars)*

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1989-90</th>
<th>Budgeted 1989-90</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>$451.60</td>
<td>$33.37</td>
<td>$204.18</td>
<td>$689.15</td>
<td>$689.15</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>.00</td>
<td>38.65</td>
<td>.00</td>
<td>38.65</td>
<td>38.65</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>.00</td>
<td>17.93</td>
<td>4.00</td>
<td>21.93</td>
<td>21.93</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>.79</td>
<td>31.23</td>
<td>.00</td>
<td>32.02</td>
<td>32.02</td>
</tr>
<tr>
<td>Total Auxiliaries</td>
<td>$8.79</td>
<td>$87.81</td>
<td>$4.00</td>
<td>$92.60</td>
<td>$92.60</td>
</tr>
<tr>
<td>University Hospitals</td>
<td>.00</td>
<td>225.05</td>
<td>11.89</td>
<td>236.94</td>
<td>236.94</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$452.39</td>
<td>$346.23</td>
<td>$220.07</td>
<td>$1,018.69</td>
<td>$1,018.69</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>5.03</td>
<td>.78</td>
<td>.76</td>
<td>6.57</td>
<td>6.57</td>
</tr>
<tr>
<td>Lime Campus</td>
<td>5.00</td>
<td>.08</td>
<td>.41</td>
<td>5.49</td>
<td>5.49</td>
</tr>
<tr>
<td>Mansfield Campus</td>
<td>4.49</td>
<td>.05</td>
<td>.40</td>
<td>4.94</td>
<td>4.94</td>
</tr>
<tr>
<td>Marion Campus</td>
<td>4.25</td>
<td>.03</td>
<td>.46</td>
<td>4.74</td>
<td>4.74</td>
</tr>
<tr>
<td>Newark Campus</td>
<td>4.77</td>
<td>.57</td>
<td>.34</td>
<td>5.68</td>
<td>5.68</td>
</tr>
<tr>
<td>Total Regional Campuses</td>
<td>$23.54</td>
<td>$1.51</td>
<td>$2.37</td>
<td>$27.42</td>
<td>$27.42</td>
</tr>
<tr>
<td>OARDC</td>
<td>.00</td>
<td>1.81</td>
<td>32.03</td>
<td>33.84</td>
<td>33.84</td>
</tr>
<tr>
<td><strong>Total Uses</strong></td>
<td>$475.93</td>
<td>$349.55</td>
<td>$254.47</td>
<td>$1,079.95</td>
<td>$1,079.95</td>
</tr>
</tbody>
</table>
DISTRIBUTION OF 1989-90 RESOURCES
CENTRAL CAMPUS, REGIONAL CAMPUSES & OARDC
(IN MILLIONS OF DOLLARS)

<table>
<thead>
<tr>
<th>Source</th>
<th>All Funds</th>
<th>Percent of Total</th>
<th>Unrestr. General(4)</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>$339.64</td>
<td>31.4%</td>
<td>$278.61</td>
<td>58.5%</td>
</tr>
<tr>
<td>Federal Grants &amp; Contracts</td>
<td>110.48</td>
<td>10.2%</td>
<td>17.28</td>
<td>3.6%</td>
</tr>
<tr>
<td>Other Government Sources</td>
<td>29.37</td>
<td>2.7%</td>
<td>1.11</td>
<td>.2%</td>
</tr>
<tr>
<td>Student Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructional (1)</td>
<td>163.33</td>
<td>15.1%</td>
<td>163.33</td>
<td>34.3%</td>
</tr>
<tr>
<td>Non-Credit Instruction</td>
<td>5.13</td>
<td>.5%</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Hospitals Sales / Services</td>
<td>222.45</td>
<td>20.6%</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Other Sales / Services (2)</td>
<td>115.02</td>
<td>10.6%</td>
<td>.42</td>
<td>.1%</td>
</tr>
<tr>
<td>Private Gifts &amp; Grants</td>
<td>61.86</td>
<td>5.7%</td>
<td>3.96</td>
<td>.8%</td>
</tr>
<tr>
<td>Endowment</td>
<td>10.35</td>
<td>1.0%</td>
<td>1.55</td>
<td>.3%</td>
</tr>
<tr>
<td>Other Sources (3)</td>
<td>22.66</td>
<td>2.1%</td>
<td>9.87</td>
<td>2.1%</td>
</tr>
<tr>
<td>Total</td>
<td>$1,080.29</td>
<td>100.0%</td>
<td>$475.93</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

(1) Includes instructional, general, non-resident, and misc. other fees.
(2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
(3) Includes temporary investments, prior years' earnings, rental income, etc.
(4) Excludes all earnings and restricted funds.
PRESSEY HALL REMODELING FOR
OFFICE OF CAREER DEVELOPMENT

OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989
APPENDIX XXVIII

LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION

Adopted by the Board of Trustees November 3, 1989
(See page 413)
Bids received by The Ohio State University on August 31, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>E. J. Meyer</th>
<th>Deepen Excavating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$142,794.00</td>
<td>$125,069.30</td>
<td>$125,675.70</td>
</tr>
<tr>
<td>Alt. G-1 (2&quot; asphalt over gravel)</td>
<td>$55,437.50</td>
<td>$30,764.60</td>
<td>$32,345.70</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$198,231.50</td>
<td>$155,833.90</td>
<td>$158,021.40</td>
</tr>
</tbody>
</table>

Alternates Not Taken:

| Alt. G-2 (Add 1" overlay) | $20,000.00 | $20,265.00 | $21,242.40        |
LIMA REGIONAL CAMPUS
REED HALL PARKING
LOT ADDITION

OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989
Page 496 is blank
APPENDIX XXVIV

MASSONRY IMPROVEMENTS - BOTANY AND ZOOLOGY BUILDING
MASSONRY IMPROVEMENTS - COCKINS HALL
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER
FACULTY CLUB IMPROVEMENTS

Adopted by the Board of Trustees November 3, 1989
(See page 414)
<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>H. K. Phillips</th>
<th>Trisco System</th>
<th>Western Waterproof</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$194,400.00</td>
<td>$189,675.00</td>
<td>$228,726.00</td>
<td>$237,686.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$194,400.00</td>
<td>$189,675.00</td>
<td>$228,726.00</td>
<td>$237,686.00</td>
</tr>
</tbody>
</table>
MASONRY IMPROVEMENTS
BOTONY AND ZOOLOGY BUILDING

OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

MASONRY IMPROVEMENTS - COCKINS HALL

Tabulation of Bids

Bids received by The Ohio State University on July 18, 1989. Bids opened by Tamara Bell and tabulated by Ray Yancik. Awards indicated with an "A".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Trisco #</th>
<th>General Maint.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$48,000.00</td>
<td>$36,582.00</td>
<td>$39,998.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$48,000.00</td>
<td>$36,582.00</td>
<td>$39,998.00</td>
</tr>
</tbody>
</table>
November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

STARLING-LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB.

Tabulation of Bids

Bids received by The Ohio State University on October 3, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "A".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Williamson</th>
<th>Navarro</th>
<th>Carville</th>
<th>McClellan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$133,100.00</td>
<td>$87,600.00</td>
<td>$88,360.00</td>
<td>$97,333.00</td>
<td>$99,736.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$133,100.00</td>
<td>$87,600.00</td>
<td>$88,360.00</td>
<td>$97,333.00</td>
<td>$99,736.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Contract (Cont.)</th>
<th>Rico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$119,876.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$119,876.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>McClellan</th>
<th>Lincoln Woodville</th>
<th>Ro-Dan</th>
<th>Williamson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$55,900.00</td>
<td>$32,393.00</td>
<td>$43,769.00</td>
<td>$47,000.00</td>
<td>$48,730.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$55,900.00</td>
<td>$32,393.00</td>
<td>$43,769.00</td>
<td>$47,000.00</td>
<td>$48,730.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC Contract</th>
<th>Estimate</th>
<th>Williamson</th>
<th>Lincoln Woodville</th>
<th>McClellan</th>
<th>Ro-Dan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$61,200.00</td>
<td>$95,200.00</td>
<td>$98,800.00</td>
<td>$110,516.00</td>
<td>$116,000.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$61,200.00</td>
<td>$95,200.00</td>
<td>$98,800.00</td>
<td>$110,516.00</td>
<td>$116,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC Contract (Cont.)</th>
<th>Edmonds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$123,000.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$123,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$48,500.00</td>
<td>$53,200.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$48,500.00</td>
<td>$53,200.00</td>
</tr>
</tbody>
</table>
November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKE TOW AGRICULTURE RESEARCH AND EXTENSION CENTER

Tabulation of Bids

Bids received by the State of Ohio, Division of Public Works on August 30, 1989. Bids opened by Elizabeth Poster and tabulated by Yvonne Tabor. Awards indicated with an "a".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Sargent</th>
<th>M Constr.</th>
<th>Venta</th>
<th>Ring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$2,205,400.00</td>
<td>$2,133,400.00</td>
<td>$2,173,000.00</td>
<td>$2,273,000.00</td>
<td>$2,377,200.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$2,205,400.00</td>
<td>$2,133,400.00</td>
<td>$2,173,000.00</td>
<td>$2,273,000.00</td>
<td>$2,377,200.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. G-1 (Greenhouse Bay) $53,564.00
- Alt. G-2 (Entrance Paving) $31,400.00
- Alt. G-4 (Bldg. Addition) $67,242.00
- Alt. G-5 (Gravel Paving) $6,910.00
- Alt. G-6 (Storage Bldg.) $17,242.00
- Alt. G-7 (Greenhouse Bay) $53,564.00

<table>
<thead>
<tr>
<th>General Contract (Cont.)</th>
<th>Debona</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$2,847,700.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$2,847,700.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. G-1 (Greenhouse Bay) $35,000.00
- Alt. G-2 (Entrance Paving) $30,000.00
- Alt. G-4 (Bldg. Addition) $97,000.00
- Alt. G-5 (Gravel Paving) $31,000.00
- Alt. G-6 (Storage Bldg.) $150,000.00
- Alt. G-7 (Greenhouse Bay) $35,000.00

504
**November 3, 1989**

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PINEYOW AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

Tabulation of Bids

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>Stockmeister</th>
<th>Croson</th>
<th>Badoro</th>
<th>Mechanical Constr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$172,200.00</td>
<td>$295,694.00</td>
<td>$297,787.00</td>
<td>$302,200.00</td>
<td>$302,985.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$172,200.00</td>
<td>$295,694.00</td>
<td>$297,787.00</td>
<td>$302,200.00</td>
<td>$302,985.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

| Alt. P-1 (Greenhouse Bay) | $2,460.00 | $3,944.00 | $3,421.00 | $3,700.00 | $3,461.00 |
| Alt. P-4 (Building Addn.) | 4,869.00  | 10,238.00 | 8,989.00  | 11,600.00 | 11,967.00 |
| Alt. P-7 (Greenhouse Bay) | 2,460.00  | 3,944.00  | 3,421.00  | 2,200.00  | 3,461.00  |

Plumbing Contract (Cont.)

<table>
<thead>
<tr>
<th>Grandview</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
</tr>
</tbody>
</table>

Total Plumbing Contract

Alternates not taken:

| Alt. P-1 (Greenhouse Bay) | $3,372.00 |
| Alt. P-4 (Building Addn.) | 9,520.00  |
| Alt. P-7 (Greenhouse Bay) | 3,300.00  |
**November 3, 1989**

**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS**

**PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)**

**Tabulation of Bids**

<table>
<thead>
<tr>
<th>HVAC Contract</th>
<th>Estimate</th>
<th>General</th>
<th>Mechanical Constr.</th>
<th>Stockmeister</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$246,900.00</td>
<td>$357,280.00</td>
<td>$369,995.00</td>
<td>$381,950.00</td>
<td>$384,400.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$246,900.00</td>
<td>$357,280.00</td>
<td>$369,995.00</td>
<td>$381,950.00</td>
<td>$384,400.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. H-1 (Greenhouse Bay) $256.00
- Alt. H-4 (Building Addn.) 8200.00
- Alt. H-7 (Greenhouse Bay) 256.00

<table>
<thead>
<tr>
<th>HVAC Contract (Cont.)</th>
<th>Estimate</th>
<th>General</th>
<th>Mechanical Constr.</th>
<th>Stockmeister</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$400,000.00</td>
<td>$407,000.00</td>
<td>$407,000.00</td>
<td>$407,000.00</td>
<td>$407,000.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$400,000.00</td>
<td>$407,000.00</td>
<td>$407,000.00</td>
<td>$407,000.00</td>
<td>$407,000.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. H-1 (Greenhouse Bay) $1000.00
- Alt. H-4 (Building Addn.) 7000.00
- Alt. H-7 (Greenhouse Bay) 1000.00

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>General</th>
<th>Mechanical Constr.</th>
<th>Stockmeister</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$223,200.00</td>
<td>$199,900.00</td>
<td>$231,935.00</td>
<td>$234,000.00</td>
<td>$289,970.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$223,200.00</td>
<td>$199,900.00</td>
<td>$231,935.00</td>
<td>$234,000.00</td>
<td>$289,970.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. E-1 (Greenhouse Bay) $2,450.00
- Alt. E-4 (Building Addn.) 2589.00
- Alt. E-5 (Serv. to Barns) 5,895.00
- Alt. E-6 (Storage Bldg.) 4,970.00
- Alt. E-7 (Greenhouse Bay) 2,450.00

506
November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

Tabulation of Bids

<table>
<thead>
<tr>
<th>Electric Contract (Cont.)</th>
<th>Westend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$298,000.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$298,000.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. E-1 (Greenhouse Bay) $900.00
- Alt. E-4 (Building Addn.) 5,300.00
- Alt. E-5 (Serv. to Barns) 6,700.00
- Alt. E-6 (Storage Bldg.) 6,200.00
- Alt. E-7 (Greenhouse Bay) 900.00
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER

OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989
November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

FACULTY CLUB IMPROVEMENTS

Tabulation of Bids

Bids received by The Ohio State University on July 13 and September 12, 1989. Bids opened by Tamara Yancey and tabulated by Raymond Yancek. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Cody Siegler</th>
<th>Cleveland</th>
<th>Peterson</th>
<th>Altman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$581,902.00</td>
<td>$627,000.00</td>
<td>$638,200.00</td>
<td>$713,500.00</td>
<td>$748,663.00</td>
</tr>
<tr>
<td>Alt. G-1 (A/C Upgrade)</td>
<td>20,155.00</td>
<td>26,700.00</td>
<td>35,500.00</td>
<td>28,500.00</td>
<td>27,551.00</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$602,057.00</strong></td>
<td><strong>$653,700.00</strong></td>
<td><strong>$676,212.00</strong></td>
<td><strong>$742,000.00</strong></td>
<td><strong>$776,214.00</strong></td>
</tr>
</tbody>
</table>

Alternates not taken:

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. G-2 (Lift)</td>
<td>$14,000.00</td>
<td>$27,000.00</td>
<td>$16,340.00</td>
<td>$22,000.00</td>
<td>$23,283.00</td>
</tr>
<tr>
<td>Alt. G-3 (1st Fl. Offices)</td>
<td>26,132.00</td>
<td>19,000.00</td>
<td>29,500.00</td>
<td>39,000.00</td>
<td>24,358.00</td>
</tr>
<tr>
<td>Alt. G-4 (2nd Fl. Renov.)</td>
<td>62,889.00</td>
<td>61,700.00</td>
<td>48,300.00</td>
<td>59,000.00</td>
<td>59,015.00</td>
</tr>
<tr>
<td>Alt. G-5 (Member's Lounge)</td>
<td>7,204.00</td>
<td>9,700.00</td>
<td>3,850.00</td>
<td>6,100.00</td>
<td>5,631.00</td>
</tr>
<tr>
<td>Alt. G-7 (Roof Screening)</td>
<td>17,350.00</td>
<td>57,000.00</td>
<td>26,300.00</td>
<td>30,000.00</td>
<td>32,574.00</td>
</tr>
</tbody>
</table>

General Contract (Cont.)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outknecht</strong></td>
<td><strong>$752,000.00</strong></td>
<td><strong>$772,343.00</strong></td>
</tr>
<tr>
<td>Alt. G-1 (A/C Upgrade)</td>
<td><strong>31,000.00</strong></td>
<td><strong>31,584.00</strong></td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$783,000.00</strong></td>
<td><strong>$803,927.00</strong></td>
</tr>
</tbody>
</table>

Alternates not taken:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. G-2 (Lift)</td>
<td>$22,000.00</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>Alt. G-3 (1st Fl. Offices)</td>
<td>30,000.00</td>
<td>21,000.00</td>
</tr>
<tr>
<td>Alt. G-4 (2nd Fl. Renov.)</td>
<td>57,000.00</td>
<td>60,600.00</td>
</tr>
<tr>
<td>Alt. G-5 (Member's Lounge)</td>
<td>7,000.00</td>
<td>5,600.00</td>
</tr>
<tr>
<td>Alt. G-7 (Roof Screening)</td>
<td>29,000.00</td>
<td>32,000.00</td>
</tr>
</tbody>
</table>

Plumbing Contract

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>J. A. Crogan</th>
<th>Marco</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Bid</strong></td>
<td><strong>$277,000.00</strong></td>
<td><strong>$254,800.00</strong></td>
<td><strong>$263,889.00</strong></td>
<td><strong>$269,000.00</strong></td>
</tr>
<tr>
<td>Alt. P-1 (A/C Upgrade)</td>
<td><strong>3,000.00</strong></td>
<td><strong>2,100.00</strong></td>
<td><strong>2,300.00</strong></td>
<td><strong>2,100.00</strong></td>
</tr>
<tr>
<td><strong>Total Plumbing Contract</strong></td>
<td><strong>$280,000.00</strong></td>
<td><strong>$256,900.00</strong></td>
<td><strong>$266,189.00</strong></td>
<td><strong>$271,100.00</strong></td>
</tr>
</tbody>
</table>
**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS**

**FACULTY CLUB IMPROVEMENTS (CONT)**

**Tabulation of Bids**

<table>
<thead>
<tr>
<th>HVAC Contract</th>
<th>Estimate</th>
<th>Radico</th>
<th>Parber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$310,000.00</td>
<td>$292,000.00</td>
<td>$237,100.00</td>
</tr>
<tr>
<td>Alt. E-1 (A/C Upgrade)</td>
<td>$125,000.00</td>
<td>$116,200.00</td>
<td>$129,900.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$435,000.00</td>
<td>$408,200.00</td>
<td>$417,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Necco</th>
<th>Claypool</th>
<th>Electric Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$198,480.00</td>
<td>$203,000.00</td>
<td>$207,400.00</td>
<td>$200,350.00</td>
</tr>
<tr>
<td>Alt. E-1 (A/C Upgrade)</td>
<td>$20,000.00</td>
<td>$17,400.00</td>
<td>$13,620.00</td>
<td>$26,350.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$218,480.00</td>
<td>$220,400.00</td>
<td>$221,020.00</td>
<td>$226,700.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

| Alt. E-2 (Lift)               | $500.00    | $1,400.00 | $1,200.00 | $1,350.00 | $2,020.00 |
| Alt. E-3 (1st Fl. Offices)    | $8,500.00  | $11,270.00 | $16,040.00 | $11,350.00 | $18,800.00 |
| Alt. E-4 (2nd Fl. Renov.)     | $10,600.00 | $9,775.00  | $11,200.00 | $9,000.00  | $13,850.00 |
| Alt. E-5 (Member's Lounge)    | $1,000.00  | $2,540.00  | $2,620.00  | $1,850.00  | $2,730.00  |
| Alt. E-6 (Club Room)          | $1,500.00  | $590.00    | $650.00    | $650.00    | $500.00    |
| Alt. E-7 (Roof Screening)     | $500.00    | .00       | .00       | $1,150.00  | $350.00    |

510
Page 512 is blank
APPENDIX XXX

1624-26 HIGHLAND AVENUE

Adopted by the Board of Trustees November 3, 1989
(See page 419)
Proposed Purchase of Property at
1624-26 Highland Avenue

Stradley Hall  Park Hall  Smith Hall
W.Eleventh Ave.

1624-26
HIGHLAND AVE.

Highland Ave.  Hunter Ave.

W.Tenth Ave.

BUILDINGS NOT OWNED BY THE OHIO STATE UNIVERSITY
OFFICE OF BUSINESS AND ADMINISTRATION
NOVEMBER 3, 1989
APPENDIX XXXI

EXECUTIVE SUMMARY
J. LEONARD CAMERA CENTER MANAGEMENT CONTRACT

Adopted by the Board of Trustees November 3, 1989
(See page 421)
J. LEOHARD CAMERA CENTER
MANAGEMENT CONTRACT

Executive Summary

Recommendation

OSU Hospitals is recommending approval of the contract for the management of the J. Leonard Camera Center.

If also approved by The Industrial Commission of Ohio and the State Controlling Board, this could begin in January 1990.

Overview

I. OSU Hospitals will Provide the Camera Center:
   A. Financial Systems and Consultation
   B. Information Systems Consultation
   C. Management Team

II. OSU Hospitals will Receive:
   A. Management Team Salaries and Benefits
   B. Additional 25% Management Support Fee
   C. Use of One "Module" of Space for the Installation and Operation of Related Rehabilitation Programs

III. Evaluation
   A. OSU Receives:
      - Management Team Salaries & Benefits - "Pass Through"
      - 25% Management Support Fee - approximately $75,000
      - Value of Space - $144,000-$105,000
   B. OSU Provides:
      - Purchases and Consultation Time of $120,000
Background

The J. Leonard Camera Center is a $45 million facility of the Industrial Commission of Ohio for the rehabilitation of industrially disabled workers. It was constructed in 1985 and has been operated at partial capacity since— in part due to problems of recruitment and retention of rehabilitation professionals and problems in management and administration.

The Ohio State University Hospitals began discussions with the Industrial Commission in March of 1988 about a possible joint relationship and involvement in the facility. The Commission issued an RFP in June of 1988 requesting bids to include "management, supervision, administration, accounting and reporting, and the operations of all rehabilitation programs and ancillary functions" of the Center. The Hospitals responded to this RFP by the August 1988 deadline and was selected to begin negotiations with the Commission. These negotiations, though protracted, have been positive and have evolved through several different stages of investigation and discussion to produce a final draft contract with the following major points:

I. OSU will provide the Camera Center the following:

A. Financial System

1. The establishment of a system of cost centers.
2. A computerized "Budget Manager Software System."
3. Regular monthly financial reports of budget, actual, and comparison figures for all expenditures and revenues.
4. Consultation and support from OSU Hospitals Chief Financial Officer and staff.
5. Generation of a consultation report within 120 days.

B. Information System

1. Assistance and support of their existing management information systems on their hardware and computer network.
2. Assistance in improving their existing patient tracking, productivity, and scheduling systems.
3. Planning for the acquisition of and oversight of the installation of a new computer system, if needed.
4. Development of a long range strategic information systems plan.
5. Consultation and support from OSU Hospitals Chief Information Officer and staff.
6. Generation of a consultation report within 120 days.
C. Management Team

OSU Hospitals will also install in the Camera Center five rehabilitation administration professionals as a management team:

1. A Medical Director - either full-time or half-time as per the Camera Center's requests and needs.

2. An Administrator - who will have overall supervision of the entire Camera Center's operations, the rest of the OSU management team, and the non-professional service areas, department heads, and contract services reporting directly to him.

3. A Chief Financial Officer - who will be in charge of all facility specific financial issues, i.e. budgeting, reporting, accounting.

4. A Director of Professional Services - who will have reporting to him the department heads of occupational therapy, physical therapy, etc.

5. A Chief Information Officer - who will oversee the management information systems at the Center.

II. In exchange for the above services, the OSU Hospitals will receive from the Industrial Commission the following fees and in-kind reimbursement:

A. Reimbursement, at OSU scales, for the salaries and benefits for the management team.

B. An additional 25% Management Support Fee.

C. Use of one normally furnished treatment "module" (7,564 sq. ft.) and all agreed-upon common facility spaces and equipment for the installation and operation of related OSU rehabilitation programs:

- Exam suites/Offices/Waiting Areas
- Classroom/Conference Rooms/Auditorium
- Lab/X-Ray/Pharmacy
- Physical and Occupational Therapy Areas and Equipment
- Swimming Pool/Gymnasium/Running Track
Management of the J. Leonard Camera Center
2050 Kenny Road
Columbus, Ohio

Office of Business and Administration
November 3, 1989
Page 520 is blank
APPENDIX XXXII

NON-MANDATORY TRANSFER FROM CURRENT FUNDS
FISCAL YEAR 1988-1989

Adopted by the Board of Trustees November 3, 1989
(See page 422)
## Non-Mandatory Transfers from Current Funds
### Fiscal Year 1988-1989

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Transfer Account Number</th>
<th>Transfer From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENDOWMENT FUNDS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>015039</td>
<td>33,866.00</td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>022970</td>
<td>95.00</td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>024526</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Endowment Clearing Account</td>
<td>070002</td>
<td>037864</td>
<td>2,500.04</td>
</tr>
<tr>
<td>Friends of WOSU Endowment Fund</td>
<td>072324</td>
<td>033227</td>
<td>16,538.88</td>
</tr>
<tr>
<td>The Baker &amp; Hostetler Law Library and Building Fund</td>
<td>072498</td>
<td>051506</td>
<td>5,000.00</td>
</tr>
<tr>
<td>The Baker &amp; Hostetler Law Library and Building Fund</td>
<td>072498</td>
<td>051507</td>
<td>423,036.90</td>
</tr>
<tr>
<td>The Historic Costume &amp; Textiles Collection Fund</td>
<td>073208</td>
<td>037675</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Kurtz Chairs</td>
<td>073854</td>
<td>023854</td>
<td>214,732.50</td>
</tr>
<tr>
<td>The Helen Simpson Lambacher Fund</td>
<td>073900</td>
<td>050447</td>
<td>3,000.00</td>
</tr>
<tr>
<td>Ohio Eminent Scholar in Industrial Microbiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio 4-H Foundation Fund</td>
<td>075354</td>
<td>033590</td>
<td>135.00</td>
</tr>
<tr>
<td>OSU Name &amp; Seal Scholarship Fund</td>
<td>075427</td>
<td>015102</td>
<td>670,000.00</td>
</tr>
<tr>
<td>Pharmacy Advancement</td>
<td>075725</td>
<td>050520</td>
<td>(22,500.00)</td>
</tr>
<tr>
<td>Thomas E. Powers Veterinary Clinical Pharmacology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helen Hooven Santmyer Fund</td>
<td>075899</td>
<td>036960</td>
<td>15,000.00</td>
</tr>
<tr>
<td>Texnikoi-Arthur C. Avril Endow Fund</td>
<td>076274</td>
<td>011045</td>
<td>35,317.90</td>
</tr>
<tr>
<td>Transport Research Ctr Research Fund</td>
<td>077182</td>
<td>035457</td>
<td>218,167.00</td>
</tr>
<tr>
<td>Unrestricted Gifts</td>
<td>077323</td>
<td>050566</td>
<td>557,427.00</td>
</tr>
<tr>
<td>Various Endowment Funds</td>
<td>077435</td>
<td>015018</td>
<td>500.00</td>
</tr>
<tr>
<td>Total Transfers to Endowment Principal Funds</td>
<td></td>
<td></td>
<td>711,813.19</td>
</tr>
</tbody>
</table>

### To: LOAN FUNDS

<table>
<thead>
<tr>
<th>Transferred from Current Funds</th>
<th>Transfer Account Number</th>
<th>Transfer From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Loans-ATI</td>
<td>079991</td>
<td>033230</td>
<td>(1,842.00)</td>
</tr>
<tr>
<td>Emergency Loans-ATI</td>
<td>079991</td>
<td>038375</td>
<td>2,500.00</td>
</tr>
<tr>
<td>Total Transfers to Loan Funds</td>
<td></td>
<td></td>
<td>(8,816.00)</td>
</tr>
</tbody>
</table>

$2,969,629.41

$ (8,816.00)
### Non-Mandatory Transfers from Current Funds
#### Fiscal Year 1988-1989

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Transfer Account From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To: ANNUITY AND LIFE INCOME FUNDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H.W.Almen Annuity &amp; Life Income Fund</td>
<td>077961 038191</td>
<td>(380.03)</td>
</tr>
<tr>
<td><strong>Total Transfers to Annuity and Life Income Funds</strong></td>
<td></td>
<td>$ (380.03)</td>
</tr>
<tr>
<td><strong>To: PLANT FUNDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unexpended</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land Purchases</td>
<td>082027 010000</td>
<td>1,300,000.00</td>
</tr>
<tr>
<td>Land Purchases</td>
<td>082027 016300</td>
<td>74,947.64</td>
</tr>
<tr>
<td>OARDC Gnotobiotsic Lab</td>
<td>082068 011467</td>
<td>89,501.49</td>
</tr>
<tr>
<td>Law Building Additions Plans</td>
<td>082073 038023</td>
<td>(13,399.16)</td>
</tr>
<tr>
<td>Bee Lab Replacement</td>
<td>082077 010000</td>
<td>12,959.50</td>
</tr>
<tr>
<td>Lima Parking Lot</td>
<td>082084 016008</td>
<td>1,049.12</td>
</tr>
<tr>
<td><strong>Total Transfers to Unexpended Plant Funds</strong></td>
<td></td>
<td>$ 1,465,058.59</td>
</tr>
<tr>
<td><strong>Renewal and Replacement Funds - Remodeling and Renovation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bradford</td>
<td>085047 017200</td>
<td>21,131.00</td>
</tr>
<tr>
<td>Dorm Contingency Fund</td>
<td>085049 017200</td>
<td>7,004,440.15</td>
</tr>
<tr>
<td>Archer/Oxley Improvement</td>
<td>085050 017200</td>
<td>89,826.00</td>
</tr>
<tr>
<td>Parking Ramp Repair</td>
<td>085175 016007</td>
<td>25,000.00</td>
</tr>
<tr>
<td>South Medical Parking Ramp Repairs</td>
<td>085176 016007</td>
<td>(5,000.00)</td>
</tr>
<tr>
<td>Northwest Parking Ramp Repairs</td>
<td>085177 016007</td>
<td>(10,000.00)</td>
</tr>
<tr>
<td>Mendenhall - Cold Room</td>
<td>085193 010000</td>
<td>(13,022.00)</td>
</tr>
<tr>
<td>North Medical Parking Ramp</td>
<td>085269 016007</td>
<td>10,000.00</td>
</tr>
<tr>
<td>1224 Kinnear Road</td>
<td>085290 057236</td>
<td>714,193.00</td>
</tr>
<tr>
<td>Eleventh Avenue Ramp Repairs</td>
<td>085307 016007</td>
<td>(10,000.00)</td>
</tr>
<tr>
<td>Veterinary Science Facility</td>
<td>085311 010000</td>
<td>250,000.00</td>
</tr>
<tr>
<td>Conard Gallery - Mansfield</td>
<td>085314 037965</td>
<td>110,000.00</td>
</tr>
<tr>
<td>Law Building Locker Room</td>
<td>085335 010000</td>
<td>28,052.00</td>
</tr>
<tr>
<td>1986 Gen Receipt Bond Constrn Fund</td>
<td>085350 017200</td>
<td>243,080.00</td>
</tr>
<tr>
<td>Arps Ramp Addition</td>
<td>085375 010000</td>
<td>20,446.00</td>
</tr>
<tr>
<td>AM Night Transmitter</td>
<td>085376 033227</td>
<td>50,783.13</td>
</tr>
<tr>
<td>Vet Absorption Chiller</td>
<td>085386 010000</td>
<td>198,000.00</td>
</tr>
<tr>
<td>Civil &amp; Aero Computer Lab</td>
<td>085394 010000</td>
<td>(13,470.27)</td>
</tr>
<tr>
<td>Johnston Lab Renovation</td>
<td>085397 010000</td>
<td>633.00</td>
</tr>
<tr>
<td>Library Project 2848 AR</td>
<td>085428 015103</td>
<td>35,422.00</td>
</tr>
<tr>
<td>Student Life Renovation</td>
<td>085429 010000</td>
<td>6,446.00</td>
</tr>
</tbody>
</table>
**Non-Mandatory Transfers from Current Funds**  
**Fiscal Year 1988-1989**

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Transfer Account Number</th>
<th>From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewal and Replacement Funds -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remodeling and Renovation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Service Bldg Renovation</td>
<td>085446</td>
<td>010000</td>
<td>14,263.93</td>
</tr>
<tr>
<td>Arps Garage Repairs</td>
<td>085465</td>
<td>016007</td>
<td>(20,000.00)</td>
</tr>
<tr>
<td>12th Avenue Garage Repairs</td>
<td>085467</td>
<td>016007</td>
<td>(10,000.00)</td>
</tr>
<tr>
<td>Ives Hall Remodeling</td>
<td>085468</td>
<td>010000</td>
<td>29,500.00</td>
</tr>
<tr>
<td>Denney Hall Renovation-Room 161</td>
<td>085470</td>
<td>010000</td>
<td>1,600.00</td>
</tr>
<tr>
<td>Food Service Consulting</td>
<td>085494</td>
<td>017200</td>
<td>11,690.75</td>
</tr>
<tr>
<td>Project 3155AR-Townsend Hall</td>
<td>085498</td>
<td>010000</td>
<td>800.00</td>
</tr>
<tr>
<td>Project 3141 AR - Lincoln Tower</td>
<td>085504</td>
<td>010000</td>
<td>27,046.00</td>
</tr>
<tr>
<td>Ohio Union-Loading Dock Prj 2856</td>
<td>085512</td>
<td>016020</td>
<td>(109,994.83)</td>
</tr>
<tr>
<td>Proj 2964AR/SB-Service Building Annex</td>
<td>085513</td>
<td>010000</td>
<td>82,750.00</td>
</tr>
<tr>
<td>Eminent Scholar-Microbiology Project</td>
<td>085515</td>
<td>010000</td>
<td>285,000.00</td>
</tr>
<tr>
<td>Proj 3284-Ohio Union Cop-ez Store</td>
<td>085517</td>
<td>014030</td>
<td>32,050.00</td>
</tr>
<tr>
<td>Project 3192 AR - Sisson Hall</td>
<td>085518</td>
<td>010000</td>
<td>325.00</td>
</tr>
<tr>
<td>Proj 3124AR/GW-Evans Lab Room 1013</td>
<td>085519</td>
<td>010000</td>
<td>29,476.00</td>
</tr>
<tr>
<td>Hagerty Hall Air Con Prj 3299</td>
<td>085520</td>
<td>022875</td>
<td>8,372.00</td>
</tr>
<tr>
<td>Proj 2953-Veterinary Hospital</td>
<td>085521</td>
<td>050130</td>
<td>35,459.00</td>
</tr>
<tr>
<td>Proj 3136AR Robinson Lab</td>
<td>085523</td>
<td>010000</td>
<td>33,500.00</td>
</tr>
<tr>
<td>Postle Hall - Pre-Clinic Lab</td>
<td>085524</td>
<td>010000</td>
<td>25,000.00</td>
</tr>
<tr>
<td>Grape Research Facility-OARDC</td>
<td>085525</td>
<td>011467</td>
<td>20,000.00</td>
</tr>
<tr>
<td>Proj 3318-Beavis Hall Renovation</td>
<td>085526</td>
<td>010000</td>
<td>74,966.00</td>
</tr>
<tr>
<td>Taylor Tower-Project 3280AR</td>
<td>085528</td>
<td>017200</td>
<td>53,700.00</td>
</tr>
<tr>
<td>Proj 3158-ATI Swine Nursery</td>
<td>085530</td>
<td>011424</td>
<td>40,300.00</td>
</tr>
<tr>
<td>Plumb Hall-Project 3157AR</td>
<td>085535</td>
<td>038602</td>
<td>2,000.00</td>
</tr>
<tr>
<td>Proj 3364AR CAE Room 422</td>
<td>085537</td>
<td>010000</td>
<td>32,800.00</td>
</tr>
<tr>
<td>Proj 2874-Net Shape Lab Remodeling</td>
<td>085538</td>
<td>010000</td>
<td>83,000.00</td>
</tr>
<tr>
<td>Proj 3305AR B-Z Renovate Rooms</td>
<td>085539</td>
<td>010000</td>
<td>58,500.00</td>
</tr>
<tr>
<td>Proj 3386AR Print Facility-Roof Repl</td>
<td>085540</td>
<td>014002</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Renovation of McPherson Lab</td>
<td>085541</td>
<td>010000</td>
<td>221,577.00</td>
</tr>
<tr>
<td>Lazenby Hall Renovation</td>
<td>085543</td>
<td>010000</td>
<td>24,648.00</td>
</tr>
<tr>
<td>MacQuigg Waterproof</td>
<td>085544</td>
<td>010000</td>
<td>1,687.24</td>
</tr>
<tr>
<td>Proj 3315/3332AR Ohio Stadium Renov</td>
<td>085545</td>
<td>010000</td>
<td>57,500.00</td>
</tr>
<tr>
<td>Proj 3337AR Johnston Lab Room 209M</td>
<td>085546</td>
<td>010000</td>
<td>25,149.00</td>
</tr>
<tr>
<td>B &amp; Z Bldg Project 3428/Room 50</td>
<td>085551</td>
<td>010000</td>
<td>49,500.00</td>
</tr>
<tr>
<td>1121 Kinnear Road Project 3375AR</td>
<td>085552</td>
<td>010000</td>
<td>16,960.66</td>
</tr>
<tr>
<td>1121 Kinnear Road Project 3375AR</td>
<td>085552</td>
<td>014033</td>
<td>16,960.67</td>
</tr>
<tr>
<td>1121 Kinnear Road Project 3375AR</td>
<td>085552</td>
<td>057236</td>
<td>16,960.67</td>
</tr>
<tr>
<td>Botany &amp; Zoology Lab</td>
<td>085556</td>
<td>014110</td>
<td>802.79</td>
</tr>
<tr>
<td>Mount Hall Project 3447</td>
<td>085557</td>
<td>010000</td>
<td>51,450.00</td>
</tr>
<tr>
<td>Photo Lab Project 3496</td>
<td>085560</td>
<td>010000</td>
<td>76,300.00</td>
</tr>
<tr>
<td>Photo Lab Project 3496</td>
<td>085560</td>
<td>020227</td>
<td>8,000.00</td>
</tr>
<tr>
<td>Photo Lab Project 3496</td>
<td>085560</td>
<td>032580</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Photo Lab Project 3496</td>
<td>085560</td>
<td>057256</td>
<td>22,200.00</td>
</tr>
<tr>
<td>Postle Hall-Oral Biology</td>
<td>085561</td>
<td>021691</td>
<td>10,000.00</td>
</tr>
</tbody>
</table>

524
Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Transfer Account From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewal and Replacement Funds - Remodeling and Renovation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>St John Store Project 3231AR</td>
<td>085562 016019</td>
<td>26,700.00</td>
</tr>
<tr>
<td>St John Project 3421AR/107</td>
<td>085567 016019</td>
<td>33,670.00</td>
</tr>
<tr>
<td>Asbestos Abatement</td>
<td>085570 010000</td>
<td>14,043.00</td>
</tr>
<tr>
<td>Postle Hall Project 3483AR</td>
<td>085571 034947</td>
<td>50,000.00</td>
</tr>
<tr>
<td>Hitchcock Hall Project 3575AR</td>
<td>085574 010000</td>
<td>100,000.00</td>
</tr>
<tr>
<td>Water Resources Center Project 3559AR</td>
<td>085575 010000</td>
<td>99,175.00</td>
</tr>
<tr>
<td>Kottman Hall Project 3438AR</td>
<td>085576 024515</td>
<td></td>
</tr>
<tr>
<td><strong>Total Remodeling and Renovation</strong></td>
<td></td>
<td><strong>10,580,347.89</strong></td>
</tr>
</tbody>
</table>

To: PLANT FUNDS

Renewal and Replacement Funds - Repairs and Replacements

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Transfer Account From A/C Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Architects Equipment Resrv</td>
<td>086804 010000</td>
<td>(30,000.00)</td>
</tr>
<tr>
<td>Mershon Building Reserve Fund</td>
<td>086805 024919</td>
<td>125,000.00</td>
</tr>
<tr>
<td>Child Care Center Equipment Reserve</td>
<td>086807 011086</td>
<td>94,000.00</td>
</tr>
<tr>
<td>Child Care Center Plant Reserve</td>
<td>086808 011086</td>
<td>60,000.00</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>086899 010000</td>
<td>2,550,000.00</td>
</tr>
<tr>
<td>Admissions-Equipment Reserve</td>
<td>086904 010000</td>
<td>1,560.00</td>
</tr>
<tr>
<td>Business Management Equipment Reserve</td>
<td>086907 010000</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Physical Facility Equipment Reserve</td>
<td>086909 010000</td>
<td>(319,483.98)</td>
</tr>
<tr>
<td>Police Equipment Reserve</td>
<td>086910 010000</td>
<td>(116,336.00)</td>
</tr>
<tr>
<td>Traffic &amp; Parking Equipment Reserve</td>
<td>086911 016007</td>
<td>(104,700.00)</td>
</tr>
<tr>
<td>Equipment Repair Reserve</td>
<td>086915 014027</td>
<td>17,535.00</td>
</tr>
<tr>
<td>Physical Facility Reserve</td>
<td>086920 010000</td>
<td>(42,355.12)</td>
</tr>
<tr>
<td>Fire Prevention - Equipment Reserve</td>
<td>086923 010000</td>
<td>(10,489.50)</td>
</tr>
<tr>
<td>Endowment Property Improv Reserve</td>
<td>086931 010190</td>
<td>1,734.00</td>
</tr>
<tr>
<td>Telecommunication Equipment Reserve</td>
<td>086938 011064</td>
<td>240,000.00</td>
</tr>
<tr>
<td>Internal Audit Equipment Reserve</td>
<td>086944 010000</td>
<td>(15,000.00)</td>
</tr>
<tr>
<td>Center for Teaching Excellence Resrv</td>
<td>086945 010000</td>
<td>(25,099.05)</td>
</tr>
<tr>
<td>Accounts Payable Equipment Reserve</td>
<td>086954 010000</td>
<td>48,750.00</td>
</tr>
<tr>
<td>Ohio Union - Improvement Reserve</td>
<td>086963 010000</td>
<td>(13,488.00)</td>
</tr>
<tr>
<td>Ohio Union-Improvement Reserve</td>
<td>086963 016020</td>
<td>202,595.00</td>
</tr>
<tr>
<td>Transportation Reserve</td>
<td>086964 010000</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Lantern Equipment Reserve</td>
<td>086968 011081</td>
<td>91,000.00</td>
</tr>
<tr>
<td>Public Safety Equipment Reserve</td>
<td>086971 010000</td>
<td>4,830.00</td>
</tr>
<tr>
<td>Registrar Equipment Reserve</td>
<td>086975 010000</td>
<td>50,000.00</td>
</tr>
<tr>
<td>Air Transport Service Reserve</td>
<td>086976 014029</td>
<td>(18,000.00)</td>
</tr>
<tr>
<td>Contracts Administration Equip Resrv</td>
<td>086977 010000</td>
<td>(25,000.00)</td>
</tr>
<tr>
<td>OER Improvement Reserve</td>
<td>086981 014027</td>
<td>1,018.00</td>
</tr>
<tr>
<td>Finance Equipment Reserve</td>
<td>086982 010000</td>
<td>100,000.00</td>
</tr>
</tbody>
</table>
Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account From A/C</th>
<th>Number</th>
<th>Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewal and Replacement Funds - Repairs and Replacements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recreation/Intramural Equip Reserve</td>
<td>086984</td>
<td>010000</td>
<td></td>
<td>35,000.00</td>
</tr>
<tr>
<td>Student Affairs - Equipment Reserve</td>
<td>086985</td>
<td>010000</td>
<td></td>
<td>51,415.53</td>
</tr>
<tr>
<td>Student Affairs - Equipment Reserve</td>
<td>086985</td>
<td>016020</td>
<td></td>
<td>5,240.65</td>
</tr>
<tr>
<td>University Systems Equipment Reserve</td>
<td>086990</td>
<td>014033</td>
<td></td>
<td>185,000.00</td>
</tr>
<tr>
<td>University College Equipment Reserve</td>
<td>086992</td>
<td>010000</td>
<td></td>
<td>110,000.00</td>
</tr>
<tr>
<td>Cash Advances-Clearing</td>
<td>086993</td>
<td>011083</td>
<td></td>
<td>50,000.00</td>
</tr>
<tr>
<td>Univ. Hospital Capital Equipment</td>
<td>086995</td>
<td>033387</td>
<td></td>
<td>5,000.00</td>
</tr>
<tr>
<td>Univ. Hospital Capital Equipment</td>
<td>086995</td>
<td>019000</td>
<td></td>
<td>3,259,580.94</td>
</tr>
<tr>
<td>Veterinary Pathobiology</td>
<td>086996</td>
<td>010000</td>
<td></td>
<td>125,730.00</td>
</tr>
<tr>
<td>Veterinary Pathobiology</td>
<td>086996</td>
<td>015109</td>
<td></td>
<td>14,500.00</td>
</tr>
<tr>
<td>Plant Funds General</td>
<td>086999</td>
<td>014010</td>
<td></td>
<td>(31,250.00)</td>
</tr>
<tr>
<td>Total Repairs and Replacements</td>
<td></td>
<td></td>
<td></td>
<td>$6,947,687.47</td>
</tr>
<tr>
<td>Total Transfers to Renewal and Replacement Funds</td>
<td></td>
<td></td>
<td></td>
<td>$17,528,035.36</td>
</tr>
</tbody>
</table>

Retirement of Indebtedness

<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account From A/C</th>
<th>Number</th>
<th>Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debt Service - HC #3</td>
<td>087003</td>
<td>017300</td>
<td></td>
<td>2,106,915.70</td>
</tr>
<tr>
<td>Debt Service Reserve - HC #3</td>
<td>087004</td>
<td>017300</td>
<td></td>
<td>(271,250.00)</td>
</tr>
<tr>
<td>Bond Redemption - HC #3</td>
<td>087005</td>
<td>017300</td>
<td></td>
<td>(21,402.56)</td>
</tr>
<tr>
<td>1986 Debt Service Pool</td>
<td>087063</td>
<td>016007</td>
<td></td>
<td>221,766.00</td>
</tr>
<tr>
<td>1986 Debt Service Pool</td>
<td>087063</td>
<td>016019</td>
<td></td>
<td>174,203.08</td>
</tr>
<tr>
<td>Total Transfers to Retirement of Indebtedness</td>
<td></td>
<td></td>
<td></td>
<td>$2,210,232.22</td>
</tr>
</tbody>
</table>

526
<table>
<thead>
<tr>
<th>Account Description</th>
<th>Account From A/C Number</th>
<th>Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investment in Plant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction-in-Progress</td>
<td>088500</td>
<td>019982</td>
<td>$6,596,093.00</td>
</tr>
<tr>
<td>Total Transfers to Investment in Plant</td>
<td></td>
<td></td>
<td>$6,596,093.00</td>
</tr>
<tr>
<td>Total Transfers to Plant Funds</td>
<td></td>
<td></td>
<td>$27,799,419.17</td>
</tr>
<tr>
<td>Grand Total Non-Mandatory Transfers</td>
<td></td>
<td></td>
<td>$30,759,852.55</td>
</tr>
</tbody>
</table>
APPENDIX XXXIII

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

December 8, 1989
Page 530 is blank
Commencement Speaker

Gerald M. Reagan

Gerald M. Reagan is a professor of education in the Department of Educational Policy and Leadership at The Ohio State University. Professor Reagan has published numerous articles, books, and papers in his specialty of the philosophy of education and has presented papers not only in this country, but also in England, Ireland, Australia, and Tasmania. His work includes the examination of ethics for educators and moral education for today’s students.

After receiving his bachelor’s degree in history from the University of Nebraska, a master’s degree in history from Western Michigan University, and a doctoral degree in education from Michigan State University, Professor Reagan served as a member of the faculties of the University of California at Los Angeles and Syracuse University. He came to Ohio State in 1969, and currently serves as vice chair of his department. Professor Reagan also is director of the Lilly Teaching Fellows Program.

Active in University governance, Professor Reagan has served three terms on the University Senate. In 1986, he was called upon to chair the University’s Special Committee for Undergraduate Curriculum Review, and his leadership and commitment to excellence have significantly influenced the future direction of undergraduate education at Ohio State.

A productive scholar and a willing and capable University citizen, Professor Reagan is a past recipient of The Ohio State University Alumni Distinguished Teaching Award. He truly represents excellence in all aspects of his faculty role. We are most delighted that Professor Reagan has agreed to address today’s graduates.
Recipient of Honors

Stanley E. Harrison
Doctor of Humane Letters

A 1958 graduate of The Ohio State University College of Engineering, Stanley E. Harrison has been an innovator and leader in a rapidly changing field. Having begun his professional career at the Battelle Memorial Institute and, later, Martin Marietta, Mr. Harrison joined the BDM Corporation in 1968. He has retired from his position as president and chief executive officer of BDM International, Inc. During his tenure at BDM, the company became a significant leader in applying high technology to some of the world's most perplexing problems—from energy and the environment to economic analysis and national defense.

Mr. Harrison is deeply committed to excellence and opportunity in higher education and has contributed his considerable leadership talents to a number of education-related endeavors. He served as chair of the Virginia Council of Higher Education and has been a trustee of Western Maryland College, Rio Grande College, and the Shenandoah College and Conservatory of Music. The National Center for the Performing Arts operated by the Wolf Trap Foundation also has enjoyed his innovative thinking and able leadership. He is now president of The Potomac Foundation, a non-profit corporation dedicated to the advancement of knowledge in science and technology, education, defense, and social development.

Ohio State's College of Engineering has called upon Mr. Harrison for counsel through the years. In 1979, the college established its Committee for Tomorrow to solicit help from industry and alumni in order to meet the changing needs of engineering education. They could think of no one to chair this group whose career and personal values more closely matched the goals of the college than Stanley Harrison.

A model of professional achievement and civic responsibility, Mr. Harrison built a company that is a pacesetter in using technology in innovative ways. He has applied his analytical skill and creative thinking beyond his corporate life to serving others. We honor both his technical and managerial achievements and his unstinting humanitarian spirit.

James E. Chapman
Distinguished Service Award

Since he graduated cum laude from Ohio State's College of Business in 1953 and summa cum laude in 1954 from the College of Law, Jim Chapman has accumulated a distinguished record of volunteer service to the University. Over the last three decades, he has maintained a strong relationship with the College of Law, providing valuable counsel to the dean, faculty, and staff on the direction of the law school.

Mr. Chapman, a partner in the Cleveland office of the law firm of Baker and Hostetler, has been an important leader in the success of the record-breaking Ohio State University Campaign as a member of the National Campaign Steering Committee. He has taken the lead in enhancing the image of and support for the University in the Cleveland area. In addition to fundraising activities, he has served on the executive committee of The Presidents Club and is an active member of the Ohio State Alumni Club of Cleveland.

Ohio State is not the only organization to benefit from his time and talents. He has been an officer of the National Association for Mental Health and is involved with numerous cultural groups in northeast Ohio, including the Suburban Symphony and the Shaker Symphony Orchestra. Chapman also is a member of the steering committee for the Linnean Society of The Cleveland Museum of Natural History. He maintains a strong interest in maritime history and art and ship preservation. He serves as a trustee of the Mystic Seaport Museum and the National Maritime Historical Society.

Mr. Chapman exemplifies the unmistakable spirit of service to others and to his alma mater, and it is with pride that we present him this Distinguished Service Award.
Recipients of Honors

Mary Anne Southard
Distinguished Service Award

Mary Anne Southard retired in December 1987 from her position as associate director of gift processing in the Office of University Development after some 30 years in fund-raising support at The Ohio State University. She and her staff were responsible for the receipt, processing, acknowledgement, and recording of each gift contributed to the University which, by the end of her career, amounted to nearly $50 million each year.

The hallmark of Ms. Southard’s work throughout her three decades at Ohio State was meticulous attention to detail. Within a rapidly growing and increasingly computerized operation, she gave each gift, great or small, personal attention, ensuring that the funds went quickly to the department, project, or program selected by the donor. Her respect for the intentions of those making gifts was unwavering, and her concern helped convey the University’s sincere appreciation to every donor.

Those who work behind the scenes often are most critical to the success of a major undertaking. Such is the case with Mary Anne Southard. Her extraordinary organizational skills and caring attitude were instrumental in the growth of the development program at Ohio State. In many ways, she has shaped both the system and the spirit of the development support operation.

For her loyalty, her effort, and her professionalism, The Ohio State University awards her its Distinguished Service Award.

Stuart A. Summit
Distinguished Service Award

Ohio State alumnus Stuart Summit is a principal partner and head of litigation of the New York law firm Summit, Rovins & Feldesman. Mr. Summit, who holds degrees both in business and in law, served as counsel to the New York State Commission on Judicial Nomination, which is responsible for nomination of candidates for appointment to the New York Court of Appeals. He currently is a member of the Bar of the City of New York committee on women in the profession. He is a frequent lecturer and is the author of various articles on litigation.

In the years since graduation, Mr. Summit’s service to the University has been consistent and invaluable. He has been an active member of the National Council of Advisors to the College of Law since 1969 and was elected president of the college’s alumni association. For six years, he represented the law school to the Alumni Advisory Council.

Mr. Summit received the 1988 Ralph Davenport Mershon Award from The Ohio State University Alumni Association in recognition of his exemplary dedication to his alma mater. Now a member of Ohio State’s National Campaign Steering Committee, he also has been a member of the executive committee of The Presidents Club and of the Development Fund Board.

To honor Mr. Summit’s long-standing commitment to excellence and his dedication to this institution, The Ohio State University presents him with this Distinguished Service Award.
Recipients of Honors

Richard W. Trott
Distinguished Service Award

Richard Trott has made extraordinary contributions toward raising the standards of excellence in architectural design in Ohio and the nation. He graduated from The Ohio State University summa cum laude and received virtually every award given by the School of Architecture. In his professional career, he has maintained this high level of excellence. Particularly known for the design of corporate facilities and retail centers, Mr. Trott has received more than 80 awards for design and technical achievements. He has made many important design contributions to the quality of this campus including the outdoor performance center in Browning Amphitheater near Mirror Lake. None to date, however, are comparable to the enormous effort and distinguished leadership he invested in the design and construction of the Wexner Center for the Visual Arts with his colleague and partner, Peter Eisenman.

An adjunct professor of architectural design, Mr. Trott has taught a design course each year and has served on a number of juries and reviews, enjoying the opportunity to regularly interact with students. He has participated in the Symposium on A Quality Learning Environment and the Committee for Tomorrow of the College of Engineering. A 1984 recipient of the Distinguished Alumnus Award, he also was a special honoree at the 300th Commencement ceremonies in 1987. He is a tireless advocate for the University and vigorously promotes it and stimulates its enhanced excellence.

In recognition of his unselfish devotion to his University, his profession, and his community, The Ohio State University presents him with the Distinguished Service Award.

Leon I. Twarog
Distinguished Service Award

It has been through the vision and leadership of Leon Twarog that The Ohio State University now stands as a leader in Slavic studies. During his more than 25-year tenure at this university, he guided the development of the Department of Slavic and East European Languages and Literatures. His Individualized Language Instruction program was a pioneering project in the country, altering the manner in which language was taught by using a self-paced program. He initiated the first Ohio State Language Study Program to the Soviet Union in 1963; today it operates successfully as the Ohio State-Purdue Pushkin Institute Moscow exchange and instruction program.

Now retired from the faculty, Professor Twarog distinguished himself as a scholar, teacher, and administrator. He received Ohio's Outstanding Teacher Award in 1984 and has worked tirelessly not only with university students, but also with high-school Slavic students and teachers across Ohio. He served as president of the American Association of Teachers of Slavic and East European Languages and is one of the world's foremost experts in his field.

Professor Twarog's career has been characterized by vision and foresight. In the early 1960s, he began collecting library resources for this University in the Slavic area. The internationally acclaimed Hilander Collection in the Ohio State Libraries has succeeded in large measure due to Professor Twarog's persistence.

Leon Twarog has helped elucidate cultures that are different from our own to thousands of students and consequently, his legacy is one of enlightenment and understanding.

In recognition of his remarkable service to the University, the nation, and to the scholarly community, The Ohio State University presents him with the Distinguished Service Award.
Brent James Shriver, West Virginia; B.S.Agr., M.S. (West Virginia University); Dairy Science
Dr. David L. Zartman
Srik Kwan Shum, Kowloon, Hong Kong; B.S. (Pennsylvania State University); M.S.; Chemical Engineering
Dr. James F. Davis
Marie Bell Sickmeier, Limestone, ME; B.A., M.L.H.R.; Labor and Human Resources
Dr. Harry R. Blame
Raghvendra Singh, Shikohabad, India; B.Eng. (University of Roorkee); M.Eng. (Carleton University); Civil Engineering
Dr. R. L. Sarakouki
Suresh Kumar Sitaraman, Madras, India; B.E. (University of Madras); M.A.Sc. (University of Ottawa, Ontario, Canada); Mechanical Engineering
Dr. G. L. Kinel
Sharon Rinkleff Stanley, Circleville, OH; B.N. (University of Maryland); M.S.N. (Wright State University); M.S.; Health, Physical Education and Recreation
Dr. R. Cory Bates
Marjorie Armstrong Stassen, Newark, B.S., M.L.H.R.; Labor and Human Resources
Dr. Janina Lattack
Bambang Sugeng, Indonesia; B.A., M.A. (IKP Yogyakarta); Education
Dr. James V. Wigtel
James David Swartz, Columbus, B.A. (Kent State University); M.A.; Education
Dr. William D. Taylor
Barbara Rose Sweeting, New Haven, CT; B.S. (Southwestern Connecticut State College); M.S.; Chemistry
Dr. C. Weldon Mathews
Lisa Cheryl Thomas, Cary, IN; B.A. (Purdue University); M.S. (Ablaine Christian University); Psychology
Dr. Don Dell
Frederick A. Tokarz, Dayton; B.S.Physics, M.S.Physics (Western Illinois University); M.S.E.E.; Electrical Engineering
Dr. Benedikt Munk
Donna Kae Transtam, Wellington, B.S., M.Ed. (Bowling Green State University); Education
Dr. E. Keith Blankenbaker
Lucille Lombardi Travis, Columbus; B.S.Nurs., M.S.; Education
Dr. Mary Ann Sagarra
Srirnrat Vasanavathana, Bangkok, Thailand; B.S. (Mahidol University); M.S.; Pharmacy
Dr. Center L. Olsen
Vincent Raymond Waldron, Columbus; B.A., M.A.; (University of Arizona); Communication
Dr. Donald J. Cegala

Hal Jay Walker, Waterbury, CT; B.A. (Brock University); M.A.; Health, Physical Education and Recreation
Dr. Barbara Nelson
Mary Kathryn Van Gundy Waller, Lancaster; Cert.Med.Tech., B.S., M.S.; Health, Physical Education and Recreation
Dr. R. Cory Bates
Hai Wang, Nanjin, P.R.C.; B.S. (Zhejiang University, China); M.S.; Electrical Engineering
Dr. Steven Sibyk
Jeh-Jeng Wang, Taichung, Taiwan, R.O.C.; B.S. (National Chung-Hsing University); Chemistry
Dr. Heinz C. Floss
Wei-Hua Wang, Taipei, Taiwan, R.O.C.; B.S. (Tungnai University); M.S.; Industrial and Systems Engineering
Dr. Richard A. Miller
Zhijiang Wang, Jinghua, P.R.C.; B.S. (Zhejiang University); M.S.; Physics
Dr. David G. Stroud
Pamela Dianne Warrick, Newark, B.A.; M.A.; Education
Dr. Judy Genkraft
Feifei Wei, Taipei, Taiwan, R.O.C.; B.A. (National Hsing Hua University); M.S. (Tam Kang University); M.A.; Statistics
Dr. William Notz
Rita Lappin Wells, Beavercreek, B.A. (University of Illinois); M.B.A. (Southern Illinois University); Education
Dr. D. L. Bobbs
Susan Lynn Wellner-Bruntun, Reynoldsburg; B.A. (Miami University); M.A.; Psychology
Dr. Feliciiana Serafica
Lynda Hobson Weston, Mt. Vernon; B.A. (Otterbein College); M.Ed. (Wright State University); Education
Dr. Radine Sims Bishop
William Warren White, Louisville, KY; B.A. (University of Louisville); M.B.A.; Computer and Information Science
Dr. Teng-Huang Lai
Mark Harold Wilde, Allison Park, PA; B.S. (Pennsylvania State University); M.S.; (University of Connecticut); Animal Science
Dr. Walter Threlfall
Philip Eugene Winger, St. Louis, MO; B.A. (Westminster College, Missouri); M.Ed. (University of Missouri-Columbia); Education
Dr. Robert J. Silverman
Timothy F. Winter, Columbus; B.A. (University of Arizona); M.A.; Classics
Dr. Stephen V. Tracy
Kathryn Anne Witt, Hawthorne, NJ; B.A. (Hope College); M.S. (Purdue University); Home Economics
Dr. Jean Snook

Patricia Woods-Samuels, Pasadena, MD; B.S. (John Carroll University); OSU Biochemistry Program
Dr. Ello F. Van

David Paul Workman, Fulton, IL; B.S. (Northern Illinois University); Chemistry
Dr. Sheldon G. Shore

Jiejun Xiao-Cheng, Zhou College of Medicine; B.S. (University of Shanxi); Pharmacology
Dr. Robert E. Kelle

Daniel J. Obermiller, Norwalk; B.S. (John Carroll University); M.A. (Columbia); Animal Science
Dr. Donald C. Mahan

Nai-Dong Ye, Guangzhou, P.R.C.; B.S. (Zhongshan University); Chemistry
Dr. Doris H. Busch

Brian A. Young, Yellow Springs, OH; B.S. (Texas A&M University); Agronomy
Dr. Steve S. Martin

Brian Scott Zaff, East Liberty, B.A. (Trinity College); M.A.; Psychology
Dr. Dean H. Owen

E. H. Kelle Zelker, Newark; B.S. (University of Cincinnati); M.S. (Indiana University); Chemistry
Dr. Andrew Wojcicki

Xiao-Cheng Zeng, Beijing, P.R.C.; B.S. (Peking University); M.S.; Physics
Dr. D. G. Stroud

Karl Joseph, Shanghai, P.R.C.; M.D. (Shanghai First Medical College); M.S. (Institute of Cell Biology); Medical Microbiology and Immunology
Dr. Ronald Glaser

Ke Zhang, Shenyang, P.R.C.; B.S. (Linzhou College of Medicine); M.S. (China Medical University); Veterinary Physiology and Pharmacology
Dr. Robert L. Hamlin, Dr. S. Mark Strauch

Master of Applied Statistics

Yong Sok Choe, Columbus; B.S.; Statistics

Thomas Gerald Jacobs, Columbus; B.S. (University of Michigan); Statistics

Kevin Andrew Keller, Florissant, MO; B.S. (University of Missouri-Rolla); Statistics

Daniel J. Obermiller, Norwalk; B.S. (John Carroll University); Statistics

Thomas Charles Schultz, Jr., Columbus; B.S. (University of Pittsburgh); Statistics

Karen L. Coleman, Cleveland; B.S.Bus.Adm.; Education

Shery Louise Cornelius, Columbus; B.S. (Georgetown University); Slavic Languages and Literature

Aliza Rachel Conson, Columbus; B.S. (New York University); Art Education

Jane E. Cottrell, Columbus; B.S., M.A. (Northwestern University); M.A.; Psychology

Pamela Marie Crawford, Columbus; B.A. (University of Dayton); Education

Robert D. Davis, Columbus; B.A. (Ohio Wesleyan University); English

Trevor Davison, Columbus; Bach.Educ.Studies (University of Queensland, Australia); Education

Deana Rea Baker Detwiler, Marion; B.S.Ed.; Education

Robin Elisabeth DeVait, Stanford, CT; B.A. (Fairfield University); History

Karen M. Dober, Columbus; B.S.L.H.R.; Public Policy and Management

Carrol Ann Motter Ebelberger, Mansfield; B.S.Ed.; Education

Joseph Henry Eckhart, Huntington, WV; B.A. (Marshall University); History

Lisa M. Ellram, Brooklyn Center, MN; B.S., M.B.A. (University of Minnesota); Business Administration

Darryl Emil Ewing, Dallas, TX; B.Jour. (University of Texas-Austin); Journalism

Paul Brendan Foster, Milford, MI; B.S. (University of Michigan); East Asian Languages and Literatures

Ellen Kay Foulkes, Columbus Grove; B.S.Ed. (Bowling Green State University); Speech and Hearing Science

Elvis Eggerton Fraser, Jamaica; B.A. (Catholic University of America); Sociology

Katherine Amelia Freeman, Wooster; B.S. (University of Dayton); Health, Physical Education and Recreation

James Mark Fuller, Newark; B.A. (Capital University); Education

Robert Joseph Gale, Columbus; B.A.; M.S.L.S. (Case Western Reserve University); Public Policy and Management

Kimberly Astrid Gerst, Bethelhem, PA; B.S. (West Virginia University); Speech and Hearing Science

Cheryl Wilkins Geyer, Columbus; B.A. (Ohio Dominican College); M.A.; Education

Master of Architecture

Markus Bonn, Aschaffenburg, West Germany; B.S.Arch; Architecture

David Wayne Bullock, Sylvania; B.S.Arch; Architecture

Daniel Lee Grandy, Columbus; B.S.Bus.Adm.; Architecture

Douglas Kenard Roberts, Clinton, CT; B.S. (Clemson University); Architecture

Laura Venable Shinn, Columbus; B.S. (University of Florida); Architecture

Geoffrey King Smith, Jr., Grove City; B.S.Arch.; Architecture

Thomas Byron Spreacker, Franklin Furnace; B.S.Arch; Architecture

Master of Arts

Robert Lynne Amann, Madison, WI; B.A. (University of Wisconsin, Milwaukee); Anthropology

Gregory Emeka Anonynuo, Ibiaia, Nigeria; B.A. (University of Nigeria); Black Studies

Nancy Renee Augsburger, Columbus; B.S.; Health, Physical Education and Recreation

Gregory J. Bell, Columbus; B.A. (Kenyon College); Judaic and Near Eastern Languages and Literatures

Mary Catherine Beyer, Columbus; B.S.N. (Marquette University); Education

Carol Louise Biliczky, Medina; B.A. (Kent State University); Journalism

Cynthia Anne Boner, Johnsville; B.S.Ed.; Education

Rennie Grace Boring, Worthington; B.Mus.Ed.; Music

Patricia Anne Bright, Columbus; B.S. (Northern Illinois University); Education

Mary Ann Brown, Columbus; B.A. (Capital University); Education

Catherine C. Calhoun, Columbus; B.A. (Yale University); Judaic and Near Eastern Languages and Literatures

Amy S. Cava, Columbus; B.A. (Butler University); Education

Eng Chin Ch'ng, Selangor, Malaysia; B.A. (Universiti Sains Malaysia); Journalism

Micheline Radil Chalhoub, Lebanon; B.A. (Beirut University College); Education

Pamela Benedict Cheek, Worthington; B.S. (Otterbein College); Education

Su-Yen Chen, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); Education
Master of Science

Shaheen Abrahams, South West Africa; B.A. (Ohio Wesleyan University); Zoology

Jeffrey Kenneth Adams, Middletown, VT; B.S.Agr.; Agricultural Education

Melody Lanette Adkins, Roundhead; B.S.H.E.; Home Economics

Brad Alan Andres, Quakertown, PA; B.S. (Pennsylvania State University); Zoology

Jacinta Uzoamaka Aniangolu, Columbus; B.S. (University of Jos, Nigeria); Agricultural Engineering

Thomas M. Anzalone, Chautauqua, NY; B.S.Agr.E.; Agricultural Engineering

Laura Kay Arbogast, Rock Cave, WV; B.S. (West Virginia University); Dairy Science

Enrique Alfonso Barria, Concepcion, Chile; B.S. (Universidad de Concepcion); Electrical Engineering

Jonas Garcia Bartusta, Columbus; B.S. (Vasayas State College); Agricultural Economics and Rural Sociology

Alan Edward Beal, Worthington; B.S. (University of Maine at Machias); Computer and Information Science

Joyce Ann Becker, Columbus; B.S. (Kent State University); Nursing

James Z. Bollas, Canton, B.A.; Computer and Information Science

Lisa Ann Brennan, Dayton; B.S.N. (Wright State University); Nursing

Rodney Kent Brittenham, Lexington, NE; B.S. (University of Nebraska-Lincoln); Industrial and Systems Engineering

Paolo Bucci, Novara, Italy; B.S. (University of Milano); Computer and Information Science

David Glen Burleson, Massillon; B.S. (University of Akron); Chemistry

Herna Ines Campos, Concepcion, Chile; B.S. (Universidad de Concepcion); Allied Medical Professions

Kee Man Chan, Columbus; B.S. (The University of Hong Kong); Civil Engineering

Ching-Jey George Chang, Taipei, Taiwan, R.O.C.; D.V.M. (National Taiwan University); M.S. (University of Minnesota); Veterinary Physiology and Pharmacology

Shobha Gopinath Chay, Mysore, India; B.S.; M.S. (University of Mysore, India); Ph.D.; Computer and Information Science

Alain Chiroux de Gaville de Roany, Paris, France; B.S.; D.E.A. (École Centrale de Paris); Mechanical Engineering

Sze Wey Chua, Singapore, Singapore; B.S. (University of Arkansas); Electrical Engineering

William Lawrence Coe, Columbus; B.S.Agr.; Agricultural Education

Charles Wesley Collins, Delaware, B.A. (Mount Vernon Nazarene College); Chemistry

Shawn David Cooper, Butler, PA; B.S. (Gannon University); Chemistry

Mary Anne Costa, Worthington; B.S. (Kent State University); Nursing

Anthony M. Cox, North Vandergrift, PA; B.S.W.E.; Welding Engineering

Michael Gerard Cral, Albia, IA; B.S.; D.D.S. (University of Iowa); M.A.; Dentistry

Jayne McBurney Cubilla, Ashland; B.S.H.E.; Home Economics

Marcia Lynn Custard, Westerville; B.S.; All'd.Hlth.Prof.; Allied Medical Professions

Russell E. De Long, Germantown, WI; B.S. (University of Wisconsin at Madison); Plant Pathology

Diane D. DeYonker, Whitehouse; B.S. (Michigan State University); Agricultural Education

Mody Sidy Diallo, Timbo, Mamou, Guinea; B.S. (I.P. Kankan, Guinea); Agricultural Economics and Rural Sociology

Shawn Edward Dolan, Imlay City, MI; B.S. (Lawrence Institute of Technology); Chemistry

William Clifford Dorman, Jr., Columbus; B.S.Ch.E.; Chemical Engineering

Jay Dunton Dorsev, Manchester; B.S. (Purdue University); Agricultural Engineering

Leslie Delene Dyblic, Athens; B.S. (Ohio University); Horticulture

Robert Michael Dyer, Huntington, WV; B.S. (Marshall University); Animal Science

Steven Edsel Easter, Greenfield, B.S.; All'd.Hlth.Prof.; Allied Medical Professions

Amy Jane Edwards, Columbus; B.S.Ed.; M.A.; Mathematics

Matthew John Englehart, Brook Park; B.S.E.E.; Electrical Engineering

Erdem Sukru Eru, Izmir, Turkey; B.S.; M.S. (Bogazici University); Engineering Mechanics

Kalluri Eswar, Madras, India; B.Tech. (Indian Institute of Technology, Madras); Computer and Information Science

Tracey Lynn Faddis, Ashland; B.A. (Capital University); Industrial and Systems Engineering

Jose Felix, Santo Domingo, Dominican Republic; B.A. (Universidad Autonoma de Santo Domingo); Agricultural Education

Alberto Franco, San Jose, Costa Rica; B.A. (University of Costa Rica); Agricultural Economics and Rural Sociology

Patrick Stuart Freeman, Chapel Hill, NC; B.S. (Clemson University); Electrical Engineering

Bonnie Foster Gahn, Worthington; B.S.N. (College of Mount Saint Joseph); M.A.; Nursing

Daryle Jean Gardner-Bonneau, N. Charleroi, PA; B.A. (Morehead State University); M.A., M.A., Ph.D.; Industrial and Systems Engineering

Argyrios Gerakis, Thessaloniki, Greece; Bachelor (University of Thessaloniki); Agricultural Economics and Rural Sociology

Brian Alan Giles, E. Setauket, NY; B.S.Agr.; Entomology

Eljeana Le Glendenning, Plainville, KS; B.S. (Kansas State University); Home Economics

Denna Ruth Goodman, Columbus; B.S. (University of the State of New York); Allied Medical Professions

Karthick V. Gourishankar, Chittoor, Andhra Pradesh, India; B.S. (Indian Institute of Technology, Madras); Metallurgical Engineering

Steven Jon Gratz, Bluffton; B.S.Agr.; Agricultural Education

Thomas Roland Green, Columbus; B.A.; Agricultural Economics and Rural Sociology

David Eric Grum, Belmont; B.S.Agr.; Dairy Science

Xingyi Gu, Nanjing, P.R.C.; B.S. (Nanjing Institute of Technology); Physics

James Kenneth Hacker, Rocky River, B.S. (Ohio University); Agronomy

Julie Ann Hartigan, Columbus; B.S. (Heidelberg College); Computer and Information Science

Lisa Tandy Herren, Beavercreek; B.S.; M.A., Ph.D.; Computer and Information Science

Stephen Paul Hess, Elyria; B.S.; Mathematics

Wayne David Heym, Columbus; B.Phil. (Miami University); M.S. (Cornell University); Computer and Information Science

Chien-Yeh Hsu, Taipei, Taiwan, R.O.C.; B.S. (Cheng-Kung University); Electrical Engineering

Sheng Tsuang Hsu, Taipei, R.O.C.; B.S. (National Tsing Hua University); Chemical Engineering
Hunardi Hudiyono, Laguna Niquel, CA; B.S.E.E.; Electrical Engineering

Koji Inokuchi, Omuta, Japan; B.S. (The University of Tokyo-Japan); Chemical Engineering

Nisha Jain, Athens; B.S. (Ohio University); Computer and Information Science

JoEllen Laurene Jannot, Mt. Vernon; B.S.H.E.; Home Economics

Scott Lyle Johnson, Dunwoody, GA; B.S.Cer.E.; Ceramic Engineering

Martin J. Joyce, Portsmouth; B.S. (Wilmington College); Agricultural Education

Julie Franklin Kafkalidis, St. Paul, MN; B.S. (University of Minnesota, Minneapolis); Physics

Mahmood Karbasi-Amel, Fsfahan, Iran; B.S.E.E.; Electrical Engineering

David Zev Klapholz, Cleveland; B.S. (Miami University); Physics

Barry E. Klein, Cuyahoga Falls; B.S.Pharm.; Pharmacy

Karl David Kovach, Avon Lake; B.S.M.E.; Mechanical Engineering

Rengan Krishnukumar, Neyruli, Tamil Nadu, India; B.Tech. (Indian Institute of Technology, Madras); M.S. (Florida Atlantic University); Metallurgical Engineering

Wansheung Kwat, Hong Kong, Hong Kong; B.S., M.S. (North Texas State University); Electrical Engineering

Rebekah Sue Landes, Columbus; B.S.Nurs.; Interdisciplinary Programs

Mary Ann Lang, Portsmouth; B.S. (Ohio University); Nursing

Eric Leigh LaPresto, Cincinnati; B.S. (The University of Cincinnati); Bio-Medical Engineering

Joan Kneesei Laws, Columbus; B.S. (Valparaiso University); OSU Biochemistry Program

Douglas Wade Leaman, Chardon; B.S.Agr.; Animal Science

Jewen Lee, Columbus; B.S.E.E.; Electrical Engineering

Wendy Lee, Chicago, IL; B.S. (University of Illinois); Chemistry

Anita Denise Libster, Columbus; B.S. (Capital University); Nursing

Eng Keong Lim, Batu Pahat, Malaysia; B.S.C.E.; Civil Engineering

Lei Lu, Tian-Jin, P.R.C.; B.S. (The Technical University of Surveying and Mapping); Geodetic Science and Surveying

Po-Liang Ma, Taiwan, R.O.C.; B.S. (Cheng-Kung University); Civil Engineering

Pamela Joan Mahaffey, Niles; B.S.N. (Kent State University); Nursing

James Lewis Markham, Sparta, NJ; B.S. (Roger Williams College); Natural Resources

Jack R. McBride, St. Marys; B.S.Agr.; Agricultural Education

Kenneth P. McDonnell, Redding, CA; B.S. (University of California, Davis); Zoology

Edward Joseph McDowell, Columbus; B.S., D.D.S. (Case Western Reserve University); Dentistry

Harold Todd McMillan, Columbus; B.S. (University of Northern Florida); Computer and Information Science

Timothy Patrick Mead, Pittsford, NY; B.S. (Michigan State University); M.A.; Health, Physical Education and Recreation

Gerrit Mellen, Blacksburg, VA; B.A. (Virginia Polytechnic Institute and State University); Geodetic Science and Surveying

Stuart H. Mershon, Pittsburgh, PA; B.S. (Purdue University); Computer and Information Science

Sally A. Mills, East Norwich, NY; B.S. (East Carolina University); Home Economics

Nooordian Moeloek, Jakarta, Indonesia; Bachelor's (Bandung Institute of Technology); Civil Engineering

Douglas Dubry Moreland, Detroit, MI; B.S. (Wayne State University); Computer and Information Science

Thomas Owen Morrison, Massillon; B.S.Agr.; Poultry Science

Sopone Nawoot, Bangkok, Thailand; B.S., M.D. (Chiang Mai University); Pharmacology

Nicholas John Nevin, Dietermaritzburg, Union of South Africa; B.S.Hon.Math., B.S.Comp.Science (University of Natal); Computer and Information Science

Ruben Dario Nieto, San Cristóbal, Venezuela; B.S. (University of Florida); Agricultural Education

Susan Martha Nord, Dumont, NJ; B.S. (Delaware Valley College of Science and Agriculture); Horticulture

Cristiano de Jesus Nunez, Columbus; B.S. (University of Santo Domingo); Agricultural Education

Denis Paul O'Connell, Dayton; B.S. (Wright State University); Metallurgical Engineering

Amos Edukut Okiria, Kampala, Uganda; B.S. (Makerere University); Agricultural Education

Carlos T. Palacios, Santa Ines, Panama; Bachelor (University of Panama); Agricultural Economics and Rural Sociology

Shi-Chiang Pan, Taipei, Taiwan, R.O.C.; B.S. (The Chinese Cultural University); Food Science and Nutrition

Evdokia Papagalanli, Athens, Greece; D.D.S. (Athens University) Dentistry

Young Girl Park, Daeug, South Korea; D.V.M. (Kyung-Pook National University); Veterinary Preventive Medicine

Diane Chase Patterson, Columbus; B.S.N. (The University of Cincinnati); Nursing

Wayne Allan Penix, Grove City; B.S.E.E.; Electrical Engineering

Henri-Marc Rene Perrin, Versailles, France; Licence de Chimie (Université Pierre et Marie Curie-Paris VI); Engineer in Chemistry (École Supérette de Chimie Organique et Minérale); Chemistry

Paula E. Pippin, Worthington, B.A. (University of California, Berkeley); Chemistry

Judith Ann Potter, Aberdeen, MD; B.S. (Morgan State University); Home Economics

Jiping Qu, Beijing, P.R.C.; B.S. (The Northwest Polytechnical University); Welding Engineering

Marline Vitalien Raphael, Columbus; B.S. (York College); Chemistry

Alexander Stephen Reid, Canton; B.S.Met.E.; Metallurgical Engineering

David John Repko, Columbus; B.S. (Renswelaer Polytechnic Institute); Computer and Information Science

Doreen Madeleine Robb, Fairfield; B.S.Nat.Res.; Natural Resources

Juan F. Rodriguez, Santa Barbara, Venezuela; B.S. (The University of Tennessee at Martin); Agricultural Education

Susan Jane Rosenberger, Columbus; B.S.Nurs.; Nursing

Michele Ina Rosewell, Bellmore, NY; B.S. (State University of New York at Oneonta); Chemistry

Rusdiyanto, Pemalang, Jawa Tengah, Indonesia; B.S. (Bogor Agricultural University); Agricultural Economics and Rural Sociology

Judith Marie Rypel, Westerville; B.S. (State University of New York at Oneonta); Chemistry

Marc Andrew Sarro, Woodbridge, CT; B.S. (Washington University in Saint Louis); Computer and Information Science

Gregory Morris Saunders, Piqua; B.S.; Computer and Information Science

Chandrdeo Sawh, Berbice, Guyana; B.S.M.E.; Mechanical Engineering

542
Jane Tolley, Hamilton; B.S. (University of Agricultural Science); Agricultural Economics and Rural Sociology

Vladimir E. Vichajasiri, Tel Aviv, Israel; B.Sc. (Tel Aviv University); Geodetic Science and Surveying

Than Than Shwe, Rangoon, Burma; B.S. (Rangoon Institute of Technology); Civil Engineering

Frederick H. Simon, Columbus; B.A. (State University of New York at Albany); D.D.S. (Columbia University); Dentistry

William M. Steedly, Louisville, KY; B.S. (Virginia Polytechnic Institute and State University); Electrical Engineering

Randolph Hilton Stewart, Ingram, TX; B.S., D.V.M. (Texas A&M University); Veterinary Clinical Sciences

Todd Kenneth Stickley, Urbana; B.S. Agr.; Poultry Science

Cheryl Diane Stitt, Columbus; B.S. Ed.; Mathematics

Michael James Stonerock, Columbus; B.S.; Environment Biology

Lisa Louise Suchoski, Steubenville; B.S., M.Ed. (Kent State University); Allied Medical Professions

Vikram Swaminathan, Columbus; B.S. (Tamil Nadu Agricultural University); M.S. (University of Agricultural Science); Botany

R. Michael Taylor, North Ridgeville; B.S. E.E.; Electrical Engineering

Louis Tijerina, San Antonio, TX; B.A. (Saint Mary's University of San Antonio); M.A., Ph.D.; Industrial and Systems Engineering

Jane Tolley, Hamilton; B.S.; Horticulture

Namatie Tnare, Tengrela, Ivory Coast; B.S. (University of Côte d'Ivoire); Agricultural Economics and Rural Sociology

Guang-Yau Tsey-Taeng, Keelung, Taiwan, R.O.C.; B.S. (Chung-Yuan Christian University); Civil Engineering

Roberto Ulloa-Vaca, Quito, Ecuador; B.S. (Universidad Catolica de Ecuador); Natural Resources

Michael Andrew Ulm, Coral Springs, FL; B.S.; Computer and Information Science

Anna Margaretha Van Heeckeren, Gates Mills; B.S. (University of Michigan); Molecular Genetics

Thierry Sylvain Vandenheeste, Nointel, France; Bachelor (ESCIL France); Chemistry

Suchada Vuddhakanok, Bangkok, Thailand; B.S., D.D.S.; (Chulalongkorn University); Dentistry

Lisa Ann Wahoff, Columbus; B.S. (Ohio Wesleyan University); Nursing

Sandra Lee Walden, Powell; B.S. (University of North Carolina at Greensboro); Nursing

Amy Lynne Walters, Columbus; B.S. (Colorado State University); Home Economics

Susan Carol Watson, Mt. Vernon; B.S. (Bucknell University); Computer and Information Science

Elizabeth Ann Watters, Cleveland; B.S.H.E.; Home Economics

Vera Fosnot Wehrli, Columbus; B.S.E.E. (Case Western Reserve University); Computer and Information Science

Eric Allen Whitehill, Fairborn; B.S.E.E.; Electrical Engineering

Daniel Wims, Lumpkin, GA; B.S. (Fort Valley State College); Agricultural Education

Kim Ann Winpaisang, Fairview Park; B.S.; Preventive Medicine

Timothy Scott Woodruff, Centreville; D.V.M.; Veterinary Preventive Medicine

Essam A. Zabad, Makkah, Saudi Arabia; B.Sc., M.Sc. (University of Petroleum and Minerals); Industrial and Systems Engineering

Ofer Zilberstein, Tel Aviv, Israel; B.A. (Tel Aviv University); Geodetic Science and Surveying

Mark Robert Zimmerman, North Canton; B.S. (Grove City College); M.B.A.; Nuclear Engineering

Master of Social Work

Nella B. Garrett, Columbus; B.S. Soc.Work; Social Work
Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of the Biological Sciences
College of the Humanities
College of the Mathematical and Physical Sciences
College of the Social and Behavioral Sciences

Bachelor of Music Education

James Robert Athanasen, Girard
Lori Lynn Dukle, Xenia
Lori Lynn McMullin, Sycamore
Carol Tammy Rand, Crestline
Amy Denise Whitehill, Fairborn

Bachelor of Music Education

Bachelor of Science in Audio Recording

Michael Robert Husman, Cincinnati

Bachelor of Science in Industrial Design

Karen Lee Wirtz, Hudson

College of Biological Sciences

Acting Dean: Gary L. Floyd

Bachelor of Arts

Beverly Diane Demko, Reynoldsburg

Bachelor of Science

Christine Lynn Anderson, North Ridgeville

Colleges of the Biological Sciences

Christopher Robert Bethel, Parma Heights
Pamela Joan Burks, Columbus
Tammy Marie Byrd, Vermilion
Theodore Christopher Comas, St. Clairsville
Matthew Dale Crawley, Columbus
Philip Allen Felman, Trotwood

Offered by the College of the Arts
Offered jointly by the College of the Arts and the College of Education

Robert Lewis Gable, Jr., West Jefferson
Jayna Lynn Hatcher, Columbus
Amy Lynn Hauger, Howard
Lisa Ann Herold, Poland
Katherine Anne Holmes, Vermilion
Fredric Michael Hustey II, Columbus
Lorri Anne Jackson, Reynoldsburg
John Michael Kukay, Medina
Christine Kay Laskin, Mayfield Heights
Marlin Howard Linguer, Columbus
Beth Anne McNally, Columbus
David Bruce Parrett, Antwerp
Stephen Joseph Rabe, Kettering
David Andrew Rings, Montpelier
Robert Leon Sharp, Toledo
Jeffrey Bryan Thuma, Strongsville
Larry M. Tinchler, Jr., Northwood
Alex Valdez Trevino, San Antonio, TX
Mary Elizabeth Varner, Marion

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Jonathan Franklin Abele, Columbus
Danny G. Arledge, Columbus
Shirley Ann Arroyo, Brook Park
Nader Ayish, Elyria
Heather Lyne Bain, Fairview Park
Laura Dowling Bolos, Columbus
Richard David Bonk, Rocky River
Catherine Ann Cartwright, Heath
Timothy Henry Cole, Lima
Lisa Clare Dierker, Columbus
Luci Theresa Dimick, Aurora
Paula Jill Drozdowski, Columbus
Rebecca L. Felker, Columbus
Derek Walker Fitch, Lynhurst
Howard Steven Fogle, Cincinnati
Christine René Fox, Columbus
Christopher Lynn Freeman, Columbus
Stewart Manuel Gonzalez, Shaker Heights
Amy Renee Green, Marion
Reyne Marie Grinstead, Canton
Teresa Lindsey Hertlein, Westerville
Barbara Mary Horton, Portsmouth
Kristina Frances Jurecic, Cherry Hill, NJ
Jovan Aleksandar Karcic, Medina
Joseph Pettigrew Kearns, Jr., Ashland
Samuel David Klein, Cleveland Heights
Linda Rae Ludewig, Wintersville
Lisa Diane MacFadden, Columbus
John David Martiner, Cuyahoga Falls
Scott Alan Marlow, Findlay
Lois Sevim McCutcheon, Lakewood
Wayne Earl Motts, Groveport
David Dean Parker, Delaware
Mika Sue Pegg, Sidney
Crystal Brooke Queen, Heath
Matthew David Reither, Shelby
Amy Kathryn Resor, Columbus
Forest Joseph Rushay, Zanesville
Phillip Michael Sexton, Beaver Creek
Shane Clay Shope, Columbus
Marcie Dyan Simkoff, University Heights

544
College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

Kimberlies Dianne Andrews, Columbus
Mark Allan Rehl, Westerville
Thomas Paul Zagar, Euclid

Bachelor of Science

Matthew Robert Beals, Slingerlands, NY
Karen Lee Campbell, Holmdel, NJ
Randy David Clepper, Reynoldsburg
Jay Lawrence Clifford, Rocky River
June Anne Cramer, Lima
Diane Lynn Dickerson, Coshocton
Brian Charles Friesner, Lancaster
John Gavin Fugate, Reynoldsburg
Jon Dean Glazer, Columbus
Heidi Sue Gottke, Pataskala
James Russell Henery, New Lexington
Susan Robertson Keiff, Columbus
Barbara Jane Luberger, Middletown
Gerardo Carmelo Palumbo, Corning, NY
Erwin Thomas Raphael, St. Croix, VI
Nancy Kaye Schimpf, New Washington
Evie Shachar, Columbus
James Story Shoefelt, Akron
Andrew Larry Swinehart, Nashport
Derek Scott Wheeler, Columbus, SC
Joo Hee Yoo, Seoul, Korea

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Elizabeth Catherine Adornetto, Zanesville
Maria Teresa Airaldi, Cleveland
Betty Jean Alston, Columbus
Lisa Michelle Anderson, Upper Arlington

Tiffany Anne Iserinac, Dublin
Debbie Dee Jobe, Cardington
Jennifer Julia Kaechele, Pickerington
David Matthew Kall, Lynnhurst
Wendy Sue Karr, Carroll
John Christian Keller, Westlake
Kimberly Ann Klein, Gahanna
Patricia Mary Klein, Dayton
Paula Christine Knott, Morrow
Kristine Elizabeth Kovach, Westerville
Annemarie Louise Kuhn, Reynoldsburg
Christopher Eugene Lambert, Zanesfield
Trishia Ann Langley, Dayton
Wendy Alison Lapp, Columbus
James Jay LaPrete II, Winterville
Michael Baker Leahy, Columbus
Kandi Helise Levine, Columbus
Jeffrey Eric Levy, Bexley
Linda LeAnne Locker, Sidney
John Carl Loftus, Buffalo, NY
Brent Eugene Long, Gomer
John David Longo, Westerville
Leonard Joseph Longi, Hazlet, NJ
Paul Scott Lorenzo, Euclid
Pauline Jan Loyd, Hinckley
John Charles Lyons, Youngstown
Paul MacCartney, Bexley
Nicholas Joseph Malagreca, Columbus
Deanna Margaret Malchok, Kent
John W. Mann, Shady side
Kristan Terry Markopoulos, Warren
Fiona Dianne Martin, Dayton
Karen Louise Martin, Columbus
Michael Lee Mason, Cadiz
Susan Marie Matthews, Marion
David Kintze McCoy, Findlay
Brian Hugh McGinty, Mansfield
Daniel Joseph McHugh, Lakewood
Karen Sue McIn, Springfield
Angela Lynn Miller, Marion
Julie Beth Millisor, Belle Center
Michael David Mohr, Sherwood
Colleen Tove Morrow, Elmore
Catherine Maria Murphy, Columbus
Patrick Brendan Murphy, Akron
Sharon Alene Neel, Bradford
Linda Ann Nies, Columbus
Daniel Allen Niswonger, Jr., Greenfield
Wendi Sue Norris, Dublin
Suzanne Elizabeth O'Meara, Columbus
Lori Lynne Ogle, Columbus
René M. Parisi, Powell
Timothy James Parsons, Upper Arlington
Albert M. Pecora III, Wakeman
Caroline Marie Pejoe, Columbus
Steven Alden Philambaum, Coshocton
Timothy Brooks Phillips, Crestline
Richard Scott Potter, Johnstown
Karen Christine Quigilan, Columbus
Molly Sue Ramsey, Powell
Robert Allen Rauch, Mayfield Village
Kevin William Rawlins, Garfield Heights
Regina Marie Reid, Columbus
Julie Lynne Reed, Wilmington, NC
Eva Corinne Ritzmann, Cleveland
Laura Elizabeth Rouse, Cincinnati
Joseph Bradshaw, Columbus
Thomas Carroll Rubey, Centerville
Gregory Darrell Ruckel, Bucyrus

454
Kimberly Ann Salerno, South Euclid
Allana Marie Salimbene, Waterford
Cheryl Ann Sans, Tiffin
Marianne F.O. Sanders, Columbus
Michael Charles Schiefer, Worthington
Jeffrey David Schrepfemen, Centerville
Lynn Marie Schuckies, Columbus
James Joseph Shaheen, Delaware
Lesley Carol Sheppard, Parma
Marshall Allan Siegel, South Euclid
John William Siegel II, Columbus
Rodney Phillip Simon, Beachwood
Terrence Scott Sizb, Amherst
Julia Elizabeth Slater, Millersport
Pauline Beth Slattery, Mentor
Robert Louis Smigel, Jr., Rocky River
Pamela Ann Smith, Columbus
Randel Leland Smith, Jackson
Heather Allison Sonewald, Kirland
John Henry Starr II, Mayfield Heights
Lori Ann Steeie, Pickerington
Peter Simon Sturm, Shaker Heights
Carol Rae Strashefer, Chagrin Falls
Ursula Ann Sullivan, Highland Heights
Glen Wayne Surcliffe, Adelphi, MD
Kent Dean Tilger, Lubbock, TX
Richard Nolan Tillman, Dayton
Suzanne Clare Waller, Cincinnati
Lorri May White, Urbana
Randall Bruce White, Worthington
Steven Charles Wielaw, Ravenna
Steven Henry Wieman, Canal Winchester
Kevin Allen Williams, Pickerington
Robin Marie Wood, Reynoldsburg
Tracie Helen Wood, Ostrander
Brian Scott Young, Columbus
Jamey Katherine Zborowski, Columbus
Nicholas Anthony Zeyer, Columbus
Mitchell E. Zlotnik, Cleveland

Bachelor of Science

Nicole Marie Adiney, Kettering
Marcus Brown, Tiffin
Brian James Buron, Columbus
Heidi Marija Carman, Gallipolis
Susanne Crabtree, McDermott
Curtis John Dynda, Parma
Thomas Charles Eisele, Bexley
Timothy Joseph Feldman, Columbus
Mark Edward Frazier, M. Gilead
Keith Bernard Key, Pittsburgh, PA
Sharon Lynn Krase, Ottawa
Wesley Voris LaFerri, Brandon, FL
Brian David MacLeod, Worthington
Gerald Andrew McGinty, Mentor
Joseph Andrew Mlachak, Cleveland
Judy Nygatt, Worthington
Karen A. Orts, Monroe
Donald Scott Powell, Wheelersburg
Christopher Paul Renkel, Fairview Park
Joan Marie Schmeler, Rushville
Jay Michael Schulman, Columbus
William Atitken Turner III, Columbus
William Ward Whittenberger, Jr., Youngstown
Gregory Lee Williams, Atlanta, GA
Douglas Clark Zimmerman, Boca Raton, FL

School of Journalism

Bachelor of Arts in Journalism

Benedict Nicholas Bahner, Columbus
Erik Thomas Battenberg, Columbus
Holly Marie Bednar, Dublin
Deborah Lynn Bernard, Beverlyville
Lisa Rene Blanchard, Avon Lake
Erin Patricia Buzas, Upper Arlington
Andrew Thomas Byerly, Columbus
Bryan Patrick Camella, Sandusky
Jacqueline Margaret Carletti, Upper Arlington
Lisa Anne Chiofolo, Canton
Denise Lynn Clark, Toronto
Bonnie Kay Cox, Fredonia, KS
Susan Marie Davis, Reynoldsburg
Paula Sue Dougherty, St. Clairsville
Amy Michelle Drake, Upper Arlington
Michele Anne Fye, Mt. Sterling
Traci Lynn Gable, Springboro
Christopher Anthony Garofoli, Shaker Heights
Bradley Thomas Gecowets, Waverly
Barbara Lynne Gerber, Lyndhurst
Jeffery John Gold, North Canton
Shirley Patricia Gooding, Columbus
Judy Ann Graef, Akron
Rose N. Green, Chagrin Falls
Mary Ellen Green, Austin, TX
Erika Beth Hanson, Columbus
Kevin John Havens, Worthington
Kirsten Sue Hayes, Grove City
Catherine Stewart Hubben, Columbus
Mary Elizabeth Jacobs, Rutland
Brian David Jaffe, Pepper Pike
Tracy Lou James, Magnolia
David Francis Kabulo, Columbus
Jill Elyane Kania, Mansfield
Joseph Scott Karoscik, Lancaster
Lori Ann Kozey, Berea
Karen Ann Krubl, Centerville
Susan Yvette Lee, Dayton
Ronald James Lewis, Massillon
Charles Manula, Hoffman Estates, IL
Barry Charles McDonald, Columbus
John Allen McElfresh, Frazesburg
Thomas John McHale, Webster, NY
Leslie Gal Mendelsohn, Hastings-on-Hudson, NY
Dean Gregory Moore, Cincinnati
Beverly Ann Murphy, Gahanna
*Mary Louise Ertl Murray, Columbus
Steven Newman, Columbus
Long Ky Nguyen, Columbus
Erinn Shaileen O’Brien, Columbus
Stephen Hyle Ohlemacher, Columbus
Jean Christine Panik, Medina
Jeffrey Scott Phillips, Dayton
John Edward Powell, Jr., Newark
John Clifton Probble III, Columbus

*Awarded posthumously

Hallie Jane Reed, Painesville
Scott Alan Reisz, Westlake
Hall Bena Roth, Mayfield Heights
Edward Carl Schaefer II, Columbus
Margaret Lynn Schryver, McLean, VA
Jay Michael Schulman, Columbus
Susan Marie Sedlacek, Delaware
Cheryl Lynn Sievert, Huntsville, AL
Amy Lynn Snow, Fayette
Carl William Swisher, Columbus
Timothy Alan Taylor, Bay Village
Kristy Diane Vaughan, Columbus
Lynn Wagner, Columbus
Steven Patrick Watson, West Carrollton
Katherine Anne Watts, Westerville
Mark Alan Wolbert, Bay Village
Lois Teresa Wright, Columbus
Susan Lynn Yaroma, Westlake

College of Agriculture

Acting Dean: J. Robert Warmbord

Bachelor of Science in Agriculture

Scott Thomas Adkins, Laurel, MD
Andrew Thomas Affield, Worthington
Joel Edward Althouse, Kenton
E. Roger Banks, Franklin
Christi Lynn Bentley, Sabina
Lisa Ann Berg, Dalton
James William Breece, Columbus
Stephen McCormick Brooks, Toledo
Bernadette Ann Bruening, Yorkshire
Shaun Howard Cotterill, Bellevue
Guy Robert Cutler, Columbus
Timothy John Czartoski, Ney
James Douglas Dear, Columbus
Lisa Marie Dovin, Oberlin
Doreen Marie Dudek, Columbus
Brian Paul Easton, Cincinnati
Leslie Rachel Elliott, St. Marys, WV
Robin Lynn Felton, Carrollton
John Robert Fisher, Mansfield
Richard Lee Fisher, Wapakoneta
Alan Craig Garmatter, Rawson
John Joseph Gasper, Worthington
Christopher Glen Gerber, Whipple
Michael Thomas Gibbs, Bellevue
James Alan Gimber, Chillicothe
Meta M. Goodwin, Dublin
Martin Earl Hall, London
Paul Edward Harris, Chagrin Falls
Mark Clair Hartman, Rawson
Cindy Arlene Hefner, Lima
Steven Edward Hershberger, Troy
Julie Michele Hines, Wooster
Lamar Lee Liming, Mineral Ridge
Roger Allen Luhring, Sycamore
Shelly Dee Maurer, Zoar
Shawn Allan McCarthy, Kingston
Matthew Wayne McCluer, Lima
Lisa Mullan, Columbus
Bruce A. Oberstner, Kenton
Randy Robert Samko, Columbus
Jane Marie Schmucker, Wooster
Scott William Sessler, Sandusky
Larry Eugene Shaffer, Springfield
Kent L. Sholter, Lebanon
Wayne Dale Shriver, Pleasant City
Brian Eugene Simpson, Shelby
Eric James Slater, Paris
Wayne Randall Smith, Jr., Lake Milton
Gary Paul Suelter, Grove City
Brent Alan Swackhammer, Laurelville
Amanda Jeanne Talmadge, New Lebanon
Barry Joe Woodward, South Vienna

Scott William Sessler, Sandusky
Larry Eugene Shaffer, Springfield
Kent L. Sholter, Lebanon
Wayne Dale Shriver, Pleasant City
Brian Eugene Simpson, Shelby
Eric James Slater, Paris
Wayne Randall Smith, Jr., Lake Milton
Gary Paul Suelter, Grove City
Brent Alan Swackhammer, Laurelville
Amanda Jeanne Talmadge, New Lebanon
Barry Joe Woodward, South Vienna

Randall Wayne Ruckel, Mansfield
Thomas Scott Rhut, Vermilion
Gretchen Ann Siegfert, Randolph
Mark A. Stackhouse, Ashland
Susan Marie Szabados, Macedonia

College of Business

Acting Dean: Astrid E. Merget

Bachelor of Science in Business Administration

Sherry Diann Adams, Chesterville
John P. Agnosano, Bexley
Alisa Alaudini, Worthington
Bryan James Allen, Cambridge
John Gerard Amoroso, Reynoldsburg
Ann Christina Anast, Vincent
Mark Anthony Arns, Columbus
Daniel Dale Armstrong, Coshocton
Todd Paul Armstrong, Shelby
William Allen Arnold, Upper Sandusky
Steven Scott Asurlic, Ashubala
Sharon Ann Atkins, South Euclid
Robert Michael Atkinson, Columbus
Keith Michael Aulby, Lima
Michael Richard Aulino, Akron
Mary Yvette Austin, Columbus
Binu K. Bagga, Columbus
April Lynn Balez, Groveville
Jeri Ann Ballard, Nashport
Kim DeVera Baney, Columbus
Elizabeth Ann Barclay, Daytona Beach, FL
Romy Alix Barden, Mentor
Kevin Blake Barnes, Dublin
Michael Charles Barnes, Marietta
Amy Lynne Baunle, Antwerp
Nadeem Bawani, Columbus
David Beaufourn, Detroit, MI
Robert McNees Bell, Jr., Centerville
Randi Scott Belliner, Maumee
Brian Patrick Benyo, Austintown
Beth Ann Bickley, Sandusky
Brenda S. Blankenship, Marion
John Christopher Blubaugh, Columbus
David M. Bogner, North Ridgeville
Mary Janea Bova, St. Davids, PA
Donald Eugene Bowen, Jr., Columbus
Linda Ann Brauer, Vincent
Christina Marie Brown, Thornville
James Donald Brown, Avon Lake
Paul E. Brown, Mechanicsburg
Jeffrey Stuart Byron, Worthington
Rhonda L. Cain, Minster
Patrick Anthony Cartellone, Highland Heights
Yao Chang, Kaohsiung, Taiwan, R.O.C.
Cindy Y. Cheng, Hong Kong
Nicholas Marco Chirico, Mansfield
Karen L. Chisen, Columbus
Chai Chong Chuah, Taiping, Malaysia
Joseph Richard Clay, Columbus
James Brian Cleary, Medina
William Joseph Cleary, Columbus
M. Andrew Cody, Westerville
Mark William Colsanate, Chesterland
Tim A. Colburn, Waterville
Elexia Lynn Cole, Toledo
Anthony Scott Collins, Lima
Joan Maureen Collins, Hilliard
Pamela Jean Collins, Concord Township
Michael David Conkel, Chillicothe
Manuel Umali Corpus, Jr., Columbus
Kevin M. Coyne, Mentor
Seth Michael Cramer, Litchfield, CT
David H. Crosthwaite, Columbus
Mouaz R. Dawab, Amman, Jordan
Todd William Dailey, Chillicothe
Stephen Hugh Dang, Columbus
Joseph Christian DeGrandi, Fairfax, VA
Jeffrey Allen Dennis, Columbus
Daniel Dobres, Mayfield Heights
Jeffrey Robert Donaldson, Columbus
Gregory Thomas Downie, Shelby
Melanie Lynn Doyle, Urbana
Timothy Richardson Dreffer, Huron
Harry Charles Drew, Ravenna
Sean Patrick Dunn, Gadsden, AL
Darlene Ann Dynia, Seven Hills
Dawn Dziewik, Kirkland
Jeffrey Allan Ehlers, Tiffin
Nick E. Elia, Elyria
Tang-Liang Er, Muar, Johore, Malaysia
Kevin Ray Evans, Mt. Gilead
Gregory Crawford Fail, Massillon
Timothy Russell Fetters, Cambridge
Patrick Robert Fitch, Chesterland
James S. Fitnesspi, Pittsburgh, PA
Kelly Renee Flanagan, Newark
Robert Eric Fleming, Stow
Patricia Mary Kathleen Flinn, Grandview Heights
Mark D. Ford, Warren
Stephen Douglas Foster, East Palestine
Robert James Franzcek, East Liverpool
Christopher Neville Gatt, Sliema, Malta
Robert L. Gilliam, Groveport
Joseph Matthew Gilotti, Lima
Edward Patrick Gilroy, Powell
Theodore Christos Glavas, Athens, Greece
Karen Ann Golina, Euclid
Mark Alan Grube, Defiance
Kristine Kay Guthell, Grove City
Graham David Guthrie, Columbus
Jonathan Guzman, Puerto Cortes, Honduras
Scott Donald Halliday, Bay Village
John Christopher Hanley, Worthington
Tonya Marie Harestad, Huber Heights
Tamara K. Heiby, Celina
Barron Keith Henley, Beavercreek
Kevin Daniel Hermann, Cleveland
Steven Paul Hewitt, Canal Winchester
Lisa Marie Hickman, Worthington
Joseph Edwin Hiestaand, Hillaboro
Valerie Lynn Hinton, Marion
David Howard Hissong, Akron
Richard L. Hix II, Marion
Larry Dale Holter, Pickerington
Dann Lynn Holl, Elder, South Canton
Michael Douglas Hughes, Worthington
Clark George Huskey, Galax
Matthew John Augustine, Cleveland Heights
Raymond Eric Baker, Bellbrook
Kristine Diane Baran, Concord Township
Dawn Malynn Bentley, Bucyrus
Diane Frances Bernan, Columbus
Brian David Bertch, Coram
Teresa A. Bradford, Columbus
Patricia Lou Brewer, Worthington
Theresa Marie Burke, Bridgeport
Cassandra Irene Casto, Mansfield
Alyssa Marguerite Chellis, Columbus
Marina Rae Cheney, Grove City
Eric Todd Christian, Columbus
Lisa Ann Cline, Millburn
Stephen Michael Coffey, North Fairfield
Ronald Edward Crowell, North Fairfield
Patrick Ann Cunningham, Lima
John Michael Davis, Columbus
Judy Kay Deaver, Newark
Joy Detorre, Lorain
James Douglas DeYoung, Shaker Heights
Mary Ann Douglas, Columbus Grove
David Michael Draper, Whitehall
Joel Alan Eisenstein, Bexley
Tamara Ekis, Westerville
Mildred Loretta Forté-Thomas, Columbus
Margaret Mary Fox, Worthington
Terri Ann Fox, Shelby
Ronald Lee Fuller, Smithville
Stefanie Hope Furlatt, Calabassas Park, CA
Jeri Lynn Gabor, Mansfield
Tanya Gabriele, Fowler
Pamela Jill Garey, Delaware
Ronald Theo Garrison, Columbus
Marion Frances Garvin, Columbus
Kevin B. Gehres, Wren
Kimberly S. Giles, Mt. Vernon
Deborah Amy Goldstein, Elyria
Norma Elaine Graham, Westerville
Ann M. Grocost, Sandusky
James Elmer Gutzman, Berea
Deborah Faye Guyer, Lima
Wendy Sue Harmon, Cincinnati
Linda Susan Heald, Utica
Mitchell E. Henke, Mansfield
Michelle Renae Hicks, Portsmouth
Michael Alan Hill, Columbus
Nancy Louise Hobson, Columbus
Kurt Thomas Hofelich, Pittsburgh, PA
Melinda Kay Hudson, Grove City
Linda Kaler Jennings, Ashland
Laura Beth Johnson, Columbus
Lacretasha Jean Johnston, Greenwich
Brian Kenneth Jones, Columbus
Katherine Kalbouse, Worthington
Michelle Ann Keiter, Columbus
Sarah Bethner Kelley, Columbus
Joseph Lee Kilkime, Apple Creek
Mindy Beth King, Tuscaloosa
David Curtis Koger, Monroe
Phyllis Jean Laman, Lima
Michela Monique Lamarr, Strongsville
Jodene Ann Landin, Fort Jennings
Brian W. Lee, Mansfield
Monica Carol Ludwick, Mansfield
Michael Joseph Lukas, Alexandria
Jennifer Lynn Madden, Grove City
Pamela Marie Marek, Parma Heights
Cheryl Ann Mavec, Eastlake
Susan E. McCary, Gahanna
Michael Joseph McCoy, Dayton
Robert Allen McFee, Willoughby
Jennifer Ann McVicker, Mansfield
Dianne Marie Memmer, Cleveland
Michelle Marie Mikes, Columbus
Eric Todd Mosley, Grove City
Dana Lynn Mossor, Worthington
Donna Louise Myers, Zanesville
Charles F. Narcross, Columbus
Karen Diane Norman, Shelby
Gabrielle Marie Onesto, Columbus
Barbara Ann Pfaff, Willard
Kathleen Faye Poyar-Foglio, Rome
Kyle Adam Purpura, Portsmouth
Jeffrey David Radebaugh, Elida
Kimberly Ann Rea, Chagrin Falls
Jennifer Joan Readon, Galloway
Michael William Reulbach, Bay Village
Harry Lee Reynolds, Akron
Amy Su Ann Romey, Bluffton
Michelle Elaine Russell, Mansfield
Beth Nicole Salemi, Lyndhurst
Kathryn Ann Sanderson, Westerville
Kathy Marie Schivinski, Mansfield
Suzanne Lynn Seiwert, West Chester
Beth Ann Senich, Morrisville, PA
Joan Elizabeth Snedeker, Columbus
Kay Ann Spellman, Columbus
Susan A. Stein, Mansfield
Elizabeth Jane Swick, Mansfield
Sarita Denise Thomas, Columbus
Celeste Ann Toth, North Ridgeville
Patty E. Trabue, Columbus
Kevin D. Vann, Columbus
Kelly Terese Vezdos, Avon Lake
Gregory Dub Voss, Bellvue
Donald Leigh Wagner, Ashland
Michael Todd Wallace, Westerville
Michelle Rene Watkins, Radnor
Gary L. Westfall, Columbus
Richard Alan Wicikser, Columbus
Helen Hoff Widman, Parma Heights
Debbie Jo Marion Wiegand, West Seneca, NY
Patricia Lynn Williams, Ashland
Steven Michael Wittier, Ottoville
Robert James Young, Gahanna
Bachelor of Science in Agricultural Engineering

John Eric Brim, Findlay
Jeff Geuy Davidson, Sidney
Edward Wescot Sarie, Worthington
Bryan James Schmucker, Louisville
Kenna Marie Specht, Connneaut

Bachelor of Science in Aviation

Laura Mary Antalik, Lynnfield, MA
Carlet Carl Auguste, Jersey City, NJ
Michael Robert Bauer, Westerville
William John Bilingsley, Cumberland, MD
Margaret Marie Daflucas, Salem, OR
Robert Lee Donner, Jr., Mt. Gilead
Kathleen Ellen Gappa, Orland Park, IL
Dale Edward Gelter, Russellville
James Malcolm Irvine, Plymouth, MN
Steven Eric Kerchner, Bedford
Hilario Fuslero Mora, Lorain
Christopher John Pawlowski, Columbus
Andrew Hall Stephen, Upper Sandusky
David Edward Wall, Medina
Malcolm A. Warren III, Lebanon, PA

Bachelor of Science in Ceramic Engineering

Anna Diane Chlosa, Fremont
Crispino DiBuggiero, North Olmsted
Lynne Renee Edmondson, Garfield Heights
Richard Charles First, Parma
Andrew Glaser, Newport, RI
Thomas Allen McInterney, Madison
Sydney Edward Robinson, Columbus
Brian Gene Ruppel, Akron

Bachelor of Science in Chemical Engineering

Pedram Alaeddini, Iran
Scott Lee Buckland, Marietta
Aileen Susan Chou, Akron

Bachelor of Science in Civil Engineering

Barry John Bauer, Worthington
Andrew Sheldon Beard, Lancaster
Michael Ervin Beaver, Columbus
Thomas William Conmager, Columbus, MO
Julie Ann Donavan, Toledo
Gregory Thomas Giaino, Oregon
Raymond A. Hahn, Jr., Pittsburgh, PA
Jacqueline Dominica Kline, Tallmadge
Ronald Scott Kramer, Jr., Loveland
Ronald Martin Makee, Fairport Harbor
Michael Allan McCleman, St. Clairsville
Margaret Arens Norris, Lancaster

Bachelor of Science in Aeronautical and Astronautical Engineering

Joel Edward Dawe, Lima
Arthur John Hulisman III, Strongsville
David Scott Miklosiev, Cleveland
Steven Arthur Walters, Cincinnati
David J. Pollock, Hinckley
Thomas Peter Riegel, Columbus
Thomas Leslie Rozsits, Chesterland
Kurt Joseph Swarts, Piqua
Geek Kueh Tan, Malacca, Malacca
Ek Tay, Johor Baru, Malaysia

Bachelor of Science in Computer and Information Science
Aish Ali Al-Nassiry, Sana’a, Yemen
Fritz Darrell Baugess, Grove City
Michael Alan Brooking, Columbus
Gary Scott Miller, Strongsville
Ek Tay, Johor Baru, Malaysia

Bachelor of Science in Electrical Engineering
Christopher John Abel, Parma
Michael Jack Agosta, Circleville
Nitin Yogendra Bhatt, Westerville
Sri Rachmani Darmawaskita, Malang, Indonesia
Tracy Lee Elswick, Wheelersburg
Steven Donald Gheen, Casstown
Charmene Louise Hopkins, Beachwood
Mark Owen Johnon, Willoughby
Thomas Edward Little, Shadyside
Michael Teik-Aun Loy, Penang, Malaysia
Sanjay Megada, Cincinnati
Cole St. John Mortensen, Brook Park
Jens Munk, Columbus
Jonathan Edward Otermat, Fremont
Anthony Duane Philipp, Findlay
Richard Joseph Schuman, St. Leon, IN
Harry Russell Scott III, Columbus
Andrew K. Shang, Huber Heights
Tulika Sinha, Norton, MA
William Joseph Smart, Chillicothe
David Harold Smith, Marion
Tracy Robert Spiteri, McCutchenville
Ronald William Stroup, Shelby
Michael Lee Tappan, Delta
Umesh S. Vazirani, Worthington

Bachelor of Science in Mechanical Engineering
Fauzir Hussein Alfalouz, Beirut, Lebanon
Christopher Lee Brandy, Eaton
John Richard Cole, Worthington
Donald Arthur Demuth III, Gates Mills
Jeffrey James Fisher, Circleville
Louie Garcia, Defiance
Patrick Michael Gibson, Columbus
Eric Shawn Goudy, Van Wert
Mark Kevin Gwinn, Newark
Majdi S. Habbal, Saida, Lebanon
Adam Herbert Hinton, Berea
Stephen James Huggins, Bexley
Robert Howard Johnston, Wooster
Glenn Arthur Kaufman, Ottawa
Chin-Poh Lim, Kuala Lumpur, Malaysia
Matthew Douglas Marks, Albuquerque, NM
Michael Daniel Matthews, Columbus
Randal Joseph May, St. Henry
Patrick Anthony McManus, Kettering
Jerald Eugene Morton, Gallion
David Eugene Powell, Hebron
Stephen Clayton Rogers, Dublin
Craig Stephen Ross, Vermilion
Brian Francis Scragg, Youngstown
Anthony James Selley, Dublin
Lisa Beth Shoaf, Whitehall
Deborah Sue Slouvtz, Amherst
Christopher Stevens, Lima
Sandra Kay Stranski, Mansfield
James Michael Taylor, Ghannah
Joseph John Toreki II, Perry

Bachelor of Science in Metallurgical Engineering
Darin Scott Barber, Cincinnati
William Otto Bahler III, Perry
Robert Matthew Herrmann, Columbus
Joel Douglas Johns, Columbus

Bachelor of Science in Surveying
James Scott Davenport, Mentor
James Edward Davis, Galion
Gary Scott Miller, Strongsville
Nilesh Raman Patel, Parma
Gary Stephen Swiercz, Zanesville
Joseph Marion Tankovich, Delaware
James Paul Villacres, Newark
Gail Ann Wilson, Piqua

Bachelor of Science in Welding Engineering
Charles Patrick O’Neill, Columbus
Lance A. Scotney, Columbus

School of Architecture
Bachelor of Science in Architecture
Quentin Martin Elliott, Columbus
Alicja Ann Freeman, Coshocton
Eric Allen Karchoff, Findlay
William Jacob Menges, Sidney
Christopher Brian Niedland, Wayne, PA
Douglas Dean Smith, Maumee

Bachelor of Science in Landscape Architecture
Edward Michael Godfrey, Bellevue
Kevin Joseph Rice, Canton
William Damon Wilson, Piqua

College of Human Ecology
Dean: Lena Bailey
Bachelor of Science in Home Economics
Linda Connell Adams, Westerville
Lynette Marie Anderson, Columbus
Karen Blaine Ankeny, Columbus
Janet Denise Atwood, Columbus
Elizabeth Emma Ball, Worthington
Linda Paulette Belz, Austin, TX
Cornelia Ingrid Bloch, Columbus
Cheryl Mae Bodine, Dublin
Loretta Lynn Bowling, Grove City
Stacy Ann Boyer, Toledo
Sally Ann Burke, Portsmouth
Martha W. Byrne, Worthington
Ellen Amanda Clyburn, Greenfield
Sonja Maria Fajack, Youngstown
Elizabeth Ann Feibelman, Akron
Catherine Loreen Ferretti, Columbus
Suzanne Margaret Grosh, Hilton Head, SC
Patricia Marie Guagenti, Lima
Karen Ann Haas, Fairview Park
Sheri Jill Harris, Cincinnati
Bachelor of Science in Nutrition
Patricia Kay McDonald, Newark

College of Law
Dean: Francis X. Beytagh, Jr.

Juris Doctor
Gardner Jerry Combs, Dayton
B.S. (University of Mississippi)
Shila Fletcher Stoner, Clinton, OK
B.A. (University of Oklahoma)
Heidi Johnson-Wright, Avon Lake
B.A. (Kent State University)
Robin Edwina Lampkin, Columbus
B.A.
Barbara Renee Levy, Columbus
B.A. (City University of New York)
Gregory Charles Luke, Englewood
B.S. (Wright State University)
Marianne K. Mitchell, Columbus
B.A. (University of Utah)
Gregory Allen Price, Youngstown
B.A.
Matthew George Seyfang, Toledo
B.A. (University of Toledo)
John Boling Sheppard, Huntsville, AL
B.S. (United States Military Academy)

College of Medicine
Dean: Manuel Tzagournis, M.D.

Doctor of Medicine
Lisa Pauline Gvoić Fugate, Columbus
A.B. (Mount Holyoke College)
Alvin Deron Jackson, Portal, GA
B.S. (Andrews University)
Patricia Ann Nofzinger, Whitehouse
B.S. (Bowling Green State University)
John Jeffrey Paul, Columbus
B.S. (Wittenberg University)

School of Allied Medical Professions
Bachelor of Science in Allied Health Professions
Michele Ann Barton, Allentown
Carolyn Elizabeth Gornell, Columbus
Lisa Carol Holtrey, Fredericktown

Bachelor of Science in Nursing
Dean: Carole A. Anderson

Gwen Bea Atkins, South Euclid
Karen Marie Bergman, Houston
Marcie Ellen Connolly, Youngstown
April Lynette Foster, Newark
Zelda Elestine Foster-McCary, Cleveland
Pamela Helen Rafferty, East Palestine
Laura Ann Emmett Reed, Springfield
Diane Marie Riddell, Pickerington
Diane Marie Sauder, Mansfield

College of Pharmacy
Dean: John M. Cassady

Debra Lynn Merrill, Nepean, Ontario, Canada
Kristen Wilkinson Moshell, Dublin

Bachelor of Science in Pharmacy
Lesley Louise Breech, Worthington
David Paul Caramati, Loveland
Richard Lee Douglass, University Heights
Eric John Edelenbos, Portsmouth
Dianne Marie Flowers, Marion
Kelly Ann Gordon, Gahanna
Jeffrey David Mancini, Cincinnati
Sandra Rose Mcinerney, Sunbury
Gregory Mieskosi, Columbus
David Alan Myers, Martins Ferry
Amy Louise Nemeczek, Cleveland
Beth Senuta, Hudson
Mary Kay Stamatakis, Canton
Pamela Jane Stoika, Brookpark
Stephanie Ann Vratle, Niles

College of Social Work
Dean: Richard E. Boettcher

Bachelor of Science in Social Work
Sharyn Marie Donatelli, Poland
Geneva Linn Sanford, Springfield
Graduates with Honors

Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class.

Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with curricular distinction and dedication to high educational goals.

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Political Science

David Matthew Kall

Summa Cum Laude with Distinction in Family Relations and Human Development

Kelly McNally Koney

Summa Cum Laude with Distinction in Plant Pathology

Scott Thomas Adkins

Summa Cum Laude with Honors in the Liberal Arts

Jonathan Franklin Abels
Sujaatha Jagadeesh

Summa Cum Laude

Christopher John Abel
Dawn Malynn Bentley
Joseph Richard Clay
Randi David Clepper
Joy Dettorre
Kelly Renée Flanagan
Gregory Thomas Gaiomo
Theodore Christos Glavas
Joan Angela Hargis
Valerie Linn Hinton
Brian Jay Hollaway
Fredric Michael Hustey II
Mark Owen Johnson

Kristina Frances Jurecic
Trishia Ann Langley
Nicholas Madias, Jr.
Kathryn Ann Sanderson
Michael Charles Schierer
Scott William Sessler
Thomas Eugene Sinclair
Tulika Sinha
Michael Lee Tappan
Sharon Elaine Will

Cum Laude with Distinction and Honors in Pharmacy

Lesley Louise Breech

Cum Laude with Honors in the Liberal Arts

Lisa Clare Dierker
David Elias Idinopulos

Cum Laude with University Honors

Nitin Yogendra Bhatt
Sean Patrick Dunn

With Honors in the Liberal Arts and with Distinction in Psychology

Karen A. Orts

With Distinction in Community Health Education

Diane Frances Berman

With Distinction in Political Science

Andrew Lawson Freid

With Honors in the Liberal Arts

Michael David Mohr
Steven Charles Wieclaw

With University Honors

Amy Michelle Drake
Lois Sevim McCutcheon
James Story Shoenfelt

Cum Laude

Angela Lynn Angus
Ann Christina Anstatt
Keith Michael Aulby
Marcia Lynne Boedeker
Kevin Scott Bollinger

Marie Therese Borgner
Linda Ann Brauer
David Edward Bukovinsky
Amy B. Corrigan
Patricia Ann Cunningham
Stephen Huy Dang
Daniel Dobres
Doreen Marie Dudek
Gregory Crawford Fail
Steven J. Gerber
Patrick Michael Gibson
Deborah Amy Goldstein
Meta M Goodwin
Ann M. Groocost
Barron Keith Henley
Kurt Thomas Hofelich
Scott Lincoln Kaser
Susan Robertson Kniff
Kathleen Mary Kelley
Kristine Elizabeth Kovach
Jodene Ann Landin
Christine Kay Laskin
James Michael Linko
Michael George Marcy
Tina Marie Mangia
Sandra Rose Mcinerney
Kristina Louise Menden
Angela Lynn Miller
*Mary Louise Ertl Murray
Judy Ngyage
Anthony Duane Philipp
Richard James Plummer
Jennifer Joan Reardon
Richard Allan Repp
Annette Sue Reynolds
Linda Ann Rollefon
Michelle Elaine Russell
Nancy Kaye Schimpf
Richard Joseph Schuman
John William Slya
Kay Ann Spellman
Joel F. Staich
Joseph Andrew Stayniak
Jerry Craig Strohacker
Jeffrey Allen Tatem
Amy Linette Weinhold
Gregory Lee Williams
Susan Marie Wolfe
Paul Joseph Wolf

592
The Board of Trustees met at its regular monthly meeting on Friday, December 1, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**       **       **

Minutes of the last meeting were approved.

**       **       **
December 1, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on December 1, 1989, at 11:20 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John W. Kessler, Milton A. Wolf, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

--0--

REPORT ON THE COLLEGE OF DENTISTRY

Mr. Berry:

We are honored today to have Dean William R. Wallace of the College of Dentistry with us to give us a report on the College.

Dean William R. Wallace:

Mr. Chairman, I am pleased to have the opportunity to come before you this morning. First, let me talk a little bit about what is happening in dentistry and the changes that are happening and perhaps get across to you our excitement about the profession.

You may have read or seen some negative press on what is happening in dentistry. I am here to assure you that the opportunities are probably better now than they have been in the last twenty years. As is often the case, the pendulum swings one way and then another. There is no question that during the 1970's there was an over production and supply of providers in dentistry. The academic community however has responded very rapidly to that. Our highest first year enrollment in the late '70's was a little over 6,000; the first year enrollment this last year was down to 4,000; no matter what we do, the enrollment in dental schools in this nation will go down probably below 3,000 in the next two or three years. What that does is create a shortage of dentists by the year 1995. So what I can tell you right now is that if you have some young friends who are in high school and think that they might enjoy a profession that allows you lots of people contact, dentistry is an opportune profession. We truly will have a shortage by the year 1995.

Let me just give you some perspective of that. The dentists to patient population of 56 to 100,000 peaked in 1987, it will go down no matter what we do. Because of the increased population in the year 2020, it will be below where it was in World War I. So we are looking at a real long decline that would be very difficult to turn around. In that respect, there are five dental schools that are closed, they are all private, but in actuality when you drop 2,000 first-year positions, with the average entering dental class being 75, you have really closed 28 dental schools. We suspect that there will be another 14, which will mean that there will be some more private schools actually closed and perhaps, unfortunately, one here in Ohio. It is getting to be a problem. But from the standpoint of a student it is actually a tremendous opportunity. One of the interesting things about the change, that this causes, is that if you realize that 30 percent, almost 40 percent of the entering class now are women, which was not the case 10 years ago. With the number of retirees and the number of women coming in, dentistry will be a tremendously different profession by the year 2000. In actuality, 30 percent of the profession will be women in the year 2000, right now it is at about 10 percent. So there is going to be a significant change. Our classes are reflecting that, we see approximately 30 percent women in our entering class in our College.
December 1, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF DENTISTRY (contd)

Dean Wallace: (contd)

It has been said that, "people would rather die than change," and I can guarantee that dentists personify that more than anyone else. You do hear a lot from our professional colleagues about the changes in the profession, in the insurance industry, more people interfering with how we provide our care, and so we are seeing, along with this decrease in entering students or entering professionals, a tremendous increase in retirements. And, in fact, the State of Ohio is now importing dentists from other states because we, both Case Western and Ohio State, no longer can provide the same number of dentists that are retiring per year. So, again, it is an opportune time, I believe, for young folks to look at dentistry. We are excited about the opportunities for them, and we hope that we have got the College in the position that we want to have it for the next few years.

Let me begin by saying that the pin I sent around to you is our centennial logo pin, and at the end I will tell you what it says on there. But I want you all to take your pencils out and write down April 27, 1990, which is a Friday night. We will have a centennial celebration down at the Hyatt Hotel. You will all get official invitations, but we are going to have a significant celebration of our centennial year this alumni day, actually it is three days. It happens to be the oldest alumni meeting in the nation -- started back in 1944 by Dean Postle, whom the school is named after, and has gone on ever since. So we are looking toward a big event.

Let me just say that probably the easiest way to tell you about what is happening in the College is to try to tell you where it was eight to ten years ago, and where it is today and there by showing the change, I hope, that it has gone through. In 1981, there were 86 full-time faculty and 115 part-time faculty, which comes out to 116 FTE's; today, there are 120. So we had a full increase of 4 FTE's in that time; however, it is 107 full-time and 73 part-time. And what that has allowed us to do is to develop the other parts of the College that needed support during this time. I am going to give you some figures that are rather startling, because there is such change.

In 1981, 70 plus percent of the faculty of the College were Ohio State graduates; as of today, less than 44 percent are Ohio State graduates I had the opportunity to make 92 hires in that period of time. Of that 92, a third of them were women, 10 percent were minorities. So, we feel that we have kept up with what is happening in the profession, and what is happening here on campus. We have had the luxury of 42 retirements. If you want to know which College early retirement has had a significant impact on, you are seeing one.

We have been able to change the way we structure the College sections or departments, as they might be called, by reducing the number down from 14 to 9. Each of these departments has a graduate program and we feel that that is one of the strong changes in the College, in that we have increased our graduate programming and therefore increased our research. Each of our graduate research programs has been extended a year so that our graduate students are all providing some kind of research, along with the clinical training that they get during that time. We have gone from 50 graduate students up to 75. So you can see that is a significant number. We hope you will see, sometime yet this year, our request for a Ph.D. program in oral biology. This will finally give us our Ph.D. in our own College, so that we can increase our graduate students.
December 1, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF DENTISTRY (contd)

Dean Wallace: (contd)

In the area of research, in 1981 we were the large midwestern university that put Crest on the market. We got $12,000 a year from P & G to do that, and it has significantly changed dentistry, as a matter of fact. This year we hope to top $2 million in research. I think that is probably the biggest change that we have seen. We had, roughly, 25 faculty who had graduate faculty status in 1981, we have 75 now. Again, talking to the opportunity to hire new people, we just brought on board a full professor, Ruth Nordlander, who came with a Javis Award, which is seven years of non-competitive funding from NIH in the neurobiology area. So these are the kinds of things that we have been able to do with the opportunities we have had available.

The $2 million will get us close to being among the top ten in the country in research in dentistry. And you realize, that six of those ten schools have NIH dental research centers funded at their schools. I can tell you that in the last three years of the International Research Meeting we have been one, two, or three in the number of research reports presented. So, again, it tells you that not only did we bring the people in, but they are out producing. There were 47 requests for grants this year from the Research Foundation totalling $13 million, and we are going to get some of those. And we look to the day we are going to be having $3 million in research, fairly soon, in the College.

Let's talk about one of the other areas and the opportunities that we have here at the University. The Seed Grant Program is run through the Vice President for Research and Graduate Studies area and we have received a total 18, but three of those were last year. So there were 15 up to last year; 11 of those have now received external funding. So it tells you that if given the opportunity and the funds, we can get pilot studies done and then go out and see the success. Probably the biggest success, and the one I would like to talk about, is that we had our first faculty member -- at sixty-four years old -- get his first external grant about a year ago from NIH. So with change and with the right mix, you can see things happening.

In 1981, 5 percent of the faculty had Ph.D. degrees; we now have 20 percent of the faculty with Ph.D. degrees along with dentistry degrees, which again leads us to the ability to have our own oral biology Ph.D. program. We have over 150 students doing research, which we believe is probably the best way to teach them how to think. Obviously, with only 107 full-time faculty, it keeps them busy. But that also is a good sign from the Dean's standpoint, because if they have a student in their lab working, they are in there supervising and getting some good of both sides of that.

Just for interest sake, we have 25 faculty that collaborate with 55 other departments on the campus. We have students in our laboratories in the College from pathobiology, microbiology, geology and mineralogy, engineering, chemistry, so that we have developed a fairly good inner-mix in our research endeavors.

As far as service is concerned, you know that we have a Dental Clinic, that is a fairly significant component of the students' training. We have done some interesting things in the last few years in that we have done some evening clinics, which happen to be our busiest, and we go year-round now. Because of that, we have actually increased our billings at the Clinic from $1 million to $3 million a year, in that period of time. We have added a faculty practice, which was approved in 1982 by the Board, and that brings in approximately $1 million a year. So we are doing some
REPORT ON THE COLLEGE OF DENTISTRY (contd)

Dean Wallace: (contd)

things to help ourselves through our clinical situation. I can also inform you that when you get hit with infection control problems and just buying gloves, masks, and the things that we must do now, that cost is somewhere between $250,000 and $300,000 a year in our facility, and you can't very well pass that very well on to the patient. Our patients are clinic patients, so we have a limit which we can charge. We aren't going to have them if we charge too much, and we must have them. The Clinic is probably the thing that is going to limit our enrollment. But other things aside, if we don't have patients, and if we get ourselves priced out of the market, we will need to change the model which we are using, which may be, eventually. But it is an interesting problem and one that gives us some difficulty, but we work on it continually.

I think it would be interesting for you to know that we are down in the inner city at Ft. Hayes, we go up to Coshocton to take care of indigent children, and we are starting a program on geriatrics at Coshocton. We have one dental clinic called our Home Bound Program. It is out in the community every day going into the homes of patients who can't get to the dentists, or to nursing homes, as part of our teaching model. We are also at Children's Hospital and University Hospitals. You should understand that almost all of the transplant patients must have excellent health before they will let them have their transplant. We are involved in those kinds of things, we go down to the City Dental Health, and we have externships in other countries so that our students have diverse experiences.

With that, let me just tell you a little bit about that pin. It is the logo for our centennial. The symbol is the Greek Delta which stands for dentistry. You will notice at the top it says "75" with Ohio State in it, because 1989 is our 75th year with the University. The "100" down below is, of course, because of our centennial -- in 1890, we started with the Ohio Medical University Department of Dentistry. And if you look at that "100" you will see that the "1" stands for teaching or the textbook; the first "0" it is a mouth mirror so that is the service part; and the last "0" is a petri dish with a few bacteria in it so that is the science part of dentistry. So, it is teaching, research, and service. Let me say that our motto for the year is "Another Century of Excellence," and we hope we have the College poised for that new century. With that, thank you.

Mr. Berry:

Let me ask you, you said currently your enrollment is at 30 percent women. Isn't that true with law, too, that they have about one-third women?

Dean Wallace:

I don't know.

Mr. Teaford:

At least that or may be a little bit more.

President Jennings:

I think about 40 percent right now.
REPORT ON THE COLLEGE OF DENTISTRY (contd)

Mrs. Bowser:
Veterinarians are almost 50 percent.

Dean Wallace:
Veterinary Medicine is over 50 percent.

Mr. Berry:
In the future, all those professions are going to have a lot more women than they have had in the past.

Mrs. Bowser:
And that is good, isn't that what you are getting at?

Mr. Berry:
Of course, Shirley. You are reading my mind.

Mr. Teaford:
Great response.

Mr. Berry:
No comment. That is a very interesting report and since my teeth are in perfect shape, why I am very happy for the future, but some of these young people might not be so fortunate.

Mr. Shumate:
Mr. Chairman, I would like to ask the Dean what percentage of your student body is American-minority?

Dean Wallace:
We are averaging about 7 to 9 percent per year, so it is in that range. It is not as good as we would like. We have recruiters and we are expanding that program. I think the success we have had recently with hiring faculty will make the student success better. That is what we are counting on and we hope that will increase our percentage.

Mrs. Bowser:
Dr. Wallace, you mentioned your cooperation or your interaction with other departments in the University and I always like to hear that. I think one of the beauties of a large, comprehensive university is the interaction that can take place. Is this something that you've developed, or is this a long-standing kind of thing?
December 1, 1989 meeting, Board of Trustees

REPORT ON THE COLLEGE OF DENTISTRY (contd)

Dean Wallace:

Well, obviously, we have had a long-standing cooperation with the College of Medicine, they teach our basic sciences; and we are part of the Hospitals program, but the answer to that is no. And so our collaboration may be in engineering or it may be over in geology. Yes, it is in medicine, there is no question there, but it is throughout the campus. It is the individual and his training and his research efforts that makes the difference, and, obviously, the Ohio State faculty who are willing to accept these kinds of things. I think that you are seeing more and more of that on this campus.

Mrs. Bowser:

I am very happy about that. I think you are to be commended.

Mr. Berry:

Any other questions? Thank you, very much, Dr. Wallace.

Dean Wallace:

Thank you. We will see you on the 19th.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as of November 17, 1989, as presented by Mr. Nichols. The value of the endowment portfolio was reported as $302.1 million. (See Appendix XXXIV for complete text of The Ohio State University Endowment Summary, November 17, 1989, page 597.)

We also reviewed the performance of those funds managed by the University Treasurer, which completes our annual review of all the investment advisors. As a result of these performance reviews, the Committee recommends Board approval of the resolution to reappoint all investment advisors with the following changes: increase allocations to STW and Boatmen's Trust by $5,000,000 each, and increase the allocation to the University Treasurer by $5,000,000, who will utilize advice from the student investment program in managing this new amount.

APPOINTMENT OF INVESTMENT ADVISOR
AND REAPPOINTMENT OF INVESTMENT ADVISORS

Resolution No. 90-52

Synopsis: The Investments Committee recommended the Appointment of Investment Advisor and Reappointment of Investment Advisors.
December 1, 1989 meeting, Board of Trustees

APPOINTMENT OF INVESTMENT ADVISOR
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)

WHEREAS it is the policy of The Ohio State University to utilize the services of external Investment Advisors to assist in the management of the University's Endowment Fund; and

WHEREAS the Investments Committee of the Board of Trustees periodically reviews the results obtained by the external Investment Advisors and the amount of funds assigned to each of them; and

WHEREAS it is prudent investment policy to adjust the mix and amounts of money assigned to external Investment Advisors as economic conditions change; and

WHEREAS the Investments Committee has also directed the Treasurer to maintain University Managed funds which primarily consist of gifts; and

WHEREAS the number of external Investment Advisors and the amount of funds assigned to them and the Treasurer shall be determined by the Board of Trustees:

NOW THEREFORE

BE IT RESOLVED. That upon the recommendation of the Investments Committee of the Board of Trustees the following named Investment Advisor shall be appointed and the following named external Investment Advisors shall be reappointed to counsel in the management of Endowment Fund investments totaling the initial amounts indicated:

<table>
<thead>
<tr>
<th>Name of Advisor</th>
<th>Book Value</th>
<th>Market Value as of 10-20-99</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust Company</td>
<td>$25,000,000</td>
<td>$23,921,037</td>
</tr>
<tr>
<td>Cambridge Financial Group, Inc.</td>
<td>$1,000,000</td>
<td>$952,715</td>
</tr>
<tr>
<td>The Chicago Corporation</td>
<td>$17,500,000</td>
<td>$37,490,553</td>
</tr>
<tr>
<td>Duff and Phelps Investment Management Company</td>
<td>$10,000,000</td>
<td>$10,288,994</td>
</tr>
<tr>
<td>W.R. Lazard and Company</td>
<td>$10,000,000</td>
<td>$10,121,962</td>
</tr>
<tr>
<td>R. Meeder and Associates, Inc.</td>
<td>$15,000,000</td>
<td>$13,949,480</td>
</tr>
<tr>
<td>Neuberger &amp; Berman Mutual Funds:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guardian Fund</td>
<td>$2,000,000</td>
<td>$8,610,986</td>
</tr>
<tr>
<td>Partners Fund</td>
<td>$1,000,000</td>
<td>$5,521,958</td>
</tr>
<tr>
<td>Nicholas-Applegate Capital Management (Equities)</td>
<td>$10,000,000</td>
<td>$13,658,576</td>
</tr>
</tbody>
</table>
December 1, 1989 meeting, Board of Trustees

APPOINTMENT OF INVESTMENT ADVISOR
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)

<table>
<thead>
<tr>
<th>Book Value</th>
<th>Market Value as of 10-20-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siebel Capital Management, Inc. (Equities)</td>
<td>$13,500,000</td>
</tr>
<tr>
<td>STW Fixed Income Management, Inc. (Fixed Income)</td>
<td>$25,000,000</td>
</tr>
<tr>
<td>University Managed (Equities)*</td>
<td>$14,119,288</td>
</tr>
<tr>
<td>University Managed (Fixed Income)*</td>
<td>$435,813</td>
</tr>
<tr>
<td>University Managed (GNMA's)</td>
<td>$10,000,000</td>
</tr>
<tr>
<td>University Managed (Students) (New Appointment)</td>
<td>$5,000,000</td>
</tr>
<tr>
<td>Wells Fargo Investment Advisors (Standard and Poor 500 Index Fund)</td>
<td>$30,000,000</td>
</tr>
<tr>
<td>Wells Fargo Investment Advisors (International Equity Index Fund)</td>
<td>$10,000,000</td>
</tr>
</tbody>
</table>

*Varies with receipt and sale of gifts.

(See Appendix XXXV for charts of The Ohio State University Endowment Fund Annual Total Return Comparison by Advisor and The Ohio State University Managed Stocks, June 30, 1989, page 607.)

Upon motion of Mr. Kessler, seconded by Mr Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

Mr. Kessler:

One item on that Student Investment Program, Mr. Berry, if I may, I think that special recognition should go to our Trustee, John Barone, who really spearheaded and drove this concept when many of us on the Board weren't as enthused as he has been. And only due to his not being in top physical shape today, would he not be here. I think all of us feel that he deserves a lot of credit in bringing us along on this exciting opportunity to work with the students.

Mr. Berry:

I think all of us would agree that it is exciting, both from the students' standpoint and the professors' standpoint. It is a fine program.

--0--
December 1, 1989 meeting, Board of Trustees

ACADEMIC AFFAIRS COMMITTEE REPORT

Mr. Teaford:

In Academic Affairs there were two reports, one on Curriculum Reform and one on Selective Admissions.

With regard to Curriculum Reform, as we recall, the review of the undergraduate education was initiated by President Jennings' speech to the University in 1985. And I would say that without his unrelenting insistence that this program be carried forward, we would not now be poised to have curriculum reform which will put us among the leaders in the United States. The general education program will begin for freshmen entering in the Autumn Quarter. So we are not talking about future now, we are talking about being there. This program will provide a structured, cohesive liberal arts component of approximately 100 credit hours for all students, which is up from approximately 45 to 50. Considerable course development is underway this year in anticipation of the new freshman program next Autumn.

The review of general education has been followed by reviews of all undergraduate majors and minors. These reviews have been designed to do the following things:

1. To ensure that major programs are well articulated with the new general education requirements.

2. Encourage faculty to develop major programs, leaving out those parts of the traditional programs which are no longer needed and including programmatic elements needed to guarantee that major programs reflect the current state of those disciplines.

3. Rethink the degree of professional or disciplinary specialization required by the major programs.

4. Examine the extent of "hidden requirements" brought about by prerequisites for required work.

Special funds are being designated to support new course development, anticipated enrollment shifts, greater faculty involvement in lower division instruction, additional laboratories, and the purchase of computers and other instructional equipment.

Just briefly, some of the significant features I think of the new curriculum -- first of all, are the senior year courses. As we all know, historically, general education has been a freshman/sophomore idea and there are now two requirements in the senior year. One a writing course within the major; and the second, and I think the most exciting, a capstone course which will be on contemporary issues and which will require interdisciplinary discussion and will include persons from different majors in those programs. This will likely be small in size; 25 maximum probably in terms of numbers.

Another significant thing in the new program is the increased requirements in regards to the sciences, particularly in the natural sciences. You will be required to take two courses, one a beginning and one a second course in biological sciences and also in physical sciences. Another important component is the requirement that it be at least a course in non-western cultures. Sophia raised the question of how do you keep track, because obviously it is a lot harder than under the old system. But,
indeed, there is a computer degree audit available to students so they can
determine that they are on track toward fulfilling the requirements.

So the significant cost-increases -- or let's say temporary costs -- that we are going
to have to incur will be in regards to new instructors, particularly in foreign
languages, but in other things as well.

Another thing, this is going to require a considerable increase in computer use on
campus. One of the things that Joan Leitzel, who gave this report and who I
neglected to mention, pointed out to us is that computers are, of course, likely to be
obsolete in four to seven years. So it is a continuing cost there that we will have to
incur. Obviously, we are going to have to do some renovations of labs and
classrooms, too, to meet the shift in the types of courses.

A couple of significant things about the program is that first of all this does not
require an increase in the hours which a student needs for graduation. These are
shifts within that requirement and not an increase in hours. They have really, as I
understand it, held their feet to the fire to insure that has happened. It is also very
important to note that outside the Colleges of the Arts and Sciences there has been
strong support for these changes, and probably stronger within Arts and Sciences. I
think that is an important thing for us to keep in mind. Every time I hear about this
program, I get very excited and almost want to go back and be an undergraduate --
not quite, but almost. This morning was no exception.

Joan Leitzel also reported on Selective Admission. I am somewhat concerned as to
whether Fred will be able to manage over there since Joan is off on a leave of
absence to Washington, but he has assured me that he can. She reported, as we
know, that the Autumn Quarter next year will be the fourth year of selective
admissions. We have particularly seen an improvement in the persons admitted in
the 60th to 80th percentiles of high school graduating classes -- not so much above
80, but we have definitely had strong increases from 60 to 80, and obviously
the corresponding reduction in persons in the lower parts of their class.

It was also pointed out to us that the other principle hope for selective admissions
has been partially fulfilled in that we are also increasing the diversity of our student
body by means of selective admissions. Joan also advised us that a
recommendation is on its way to the Faculty Senate to extend selective admissions
to the summer and winter quarters. I might point out that for Summer Quarter you
were closed out in January and for Winter Quarter you were closed out in August.
So more than a full quarter ahead of time, you get closed out. One of the real
motivators to drive this selective admissions into other quarters is that the retention
of the Autumn Quarter freshmen is now in the high 80 percent, as a result of
selective admission. In the other quarters, the retention is in the mid-60's in
percentage. So, clearly, the selective admissions has achieved better retention as
we had hoped.

---0---
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the November 3, 1989 meeting of the Board, including the following Appointments, Leave of Absence Without Salary, Professional Improvement Leave--Change in Dates, Professional Improvement Leave--Cancellation, Promotion/Tenure, and Emeritus Titles as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved October 26, 1989, by the Hospitals Board be ratified.

Appointments

Name: FREDERICK E. HUTCHINSON
Title: Vice President for Academic Affairs and Provost
Office: Academic Affairs
Effective: Immediately
Salary: $125,160.00
Present Position: Acting Vice President for Academic Affairs and Provost

Name: JOSEPH J. RUSSELL
Title: Vice Provost for Minority Affairs
Office: Academic Affairs
Effective: December 1, 1989
Salary: $90,000.00
Present Position: Dean, Department of Afro-American Affairs and Associate Professor, College of Arts & Sciences, Indiana University, Bloomington, Indiana

Education: 1960, B.S., Virginia State College
1968, M.S., Indiana University
1970, Ed.D., Indiana University

Experience:

1970 - Present Department of Afro-American Affairs, College of Arts & Sciences, Indiana University, Bloomington, Indiana

Dean and Associate Professor (1982-Present)
Associate Professor and Chairperson (1976-1981)
Assistant Professor and Chairperson (1972-1976)
Director of Human Relations and Assistant Professor (1970-1972)


1964-1967 Visiting Teacher, Richmond Public Schools

1960-1964 Social Worker, Richmond Social Service Bureau
December 1, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointments (contd)

Name: MUTTAIYA SUNDARALINGAM
Title: Professor (Ohio Eminent Scholar in Macromolecular Structure Determination)
Department/Center: Chemistry/Biotechnology Center
Effective: January 1, 1990
Salary: $94,200.00
Present Position: Steenbock Professor of Biomolecular Science, Department of Biochemistry, University of Wisconsin-Madison, Madison, Wisconsin

Education: 1956, B.Sc., University of Ceylon
1961, Ph.D., University of Pittsburgh

Experience:
1969-Present: Department of Biochemistry, University of Wisconsin-Madison, Wisconsin
Professor (1969-1987)
Steenbock Professor of Biomolecular Structure (1987-Present)
Chairman, Biophysics Ph.D. Program (1987-Present)
1966-1969 Associate Professor, Department of Chemistry, Case Western Reserve University, Cleveland, Ohio
1965-1966 Research Associate in Molecular Biology, Children's Cancer Research Foundation, Children's Hospital Medical Center, Boston, MA
1962-1965 School of Medicine, University of Washington, Seattle, Washington
Research Instructor, Department of Biological Structure (1964-1965)
Postdoctoral Fellow, Department of Anatomy (1962-1963)
1961 Research Associate, Crystallography Laboratory, University of Pittsburgh

Leave of Absence Without Salary

HAROLD S. HIMMELFARB, Associate Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to join the U.S. Department of Education in a research position.

Professional Improvement Leave--Change in Dates

THOMAS A. ROMANOWSKI, Professor, Department of Physics, change dates from Winter Quarter, Spring Quarter and Autumn Quarter 1990, to Spring Quarter and Autumn Quarter 1990, and Winter Quarter 1991.

Professional Improvement Leave--Cancellation

HAROLD S. HIMMELFARB, Associate Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.
December 1, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotion/Tenure

SALVATORE IMBROGNO, College of Social Work, promotion to Professor, effective 10/1/89

Emeritus Titles

RODNEY J. HARRISON, Office of Student Affairs, with the title Associate Vice Provost for Student Affairs Emeritus, effective December 1, 1989.

DONALD R. GLANCY, Department of Theatre, with the title Associate Professor Emeritus, effective January 1, 1990.

LESTER F. SMITH, Department of Engineering Graphics, with the title Associate Professor Emeritus, effective December 1, 1989.

Medical Staff--Appointments

JEFFREY S. BISKER, M.D., Limited Staff, Division of Diagnostic Radiology

MAIDA P. CAMPANINI, M.D., Courtesy Staff, Pediatrics

ERIC G. HANDLER, M.D., Attending Staff, Pediatrics

JOHN P. HIBLER, D.O., Courtesy Staff, Division of Dermatology

RAJA A. JURDI, M.D., Limited Staff, Division of Diagnostic Radiology

PAUL E. KAPLAN, M.D., Attending Staff, Physical Medicine and Rehabilitation

Medical Staff--Reappointments

ROBERT C. FORSYTHE, M.D., Courtesy Staff, Pediatrics

JOHN A. KLAMAR, M.D., Courtesy Staff, Pediatrics

WARNER B. LUTZ, M.D., Courtesy Staff, Division of General Medicine

LAWRENCE J. NYESTE, M.D., Courtesy Staff, Obstetrics and Gynecology

CYNTHIA A. THORNE, M.D., Limited Staff, Pediatrics

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

Mr. Berry:

Certainly we congratulate Fred on his permanent assignment as Vice President of Academic Affairs and Provost. And, we are looking forward to Joseph Russell joining us. Has he joined us already?

Dr. Hutchinson:

No. He will be here Tuesday.
December 1, 1989 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Mrs. Bowser:

Is this the first time we've had an agriculturalist as a Provost?

Mr. Teaford:

We had an acting one.

Mrs. Bowser:

Yes, Francille. But I mean is this the first time we have had one with an agricultural background?

Mr. Heinlen:

Roger Thompson or Robert Townshend?

Mrs. Bowser:

Yes, but that was before my time -- yours too. It's very nice.

Mr. Berry:

I take it you're giving it your hearty endorsement!

--0--

RESOLUTION IN MEMORIAM

Resolution No. 90-54

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolution in Memoriam.

RESOLVED, That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Doris E. Fulton

The Board of Trustees of The Ohio State University expresses its sorrow at the death on July 12, 1989, of Doris Fulton, Assistant Professor Emeritus in the Department of Human Nutrition and Food Management.

Professor Fulton was born March 23, 1914. She attended The Ohio State University from 1931-1938. She received her B.S. degree in Home Economics and her M.S. degree in Agricultural Biochemistry.

Professor Fulton came to the University in 1935 and was employed initially as a Graduate Teaching Associate. She was later employed as a Research Associate from 1958-1960. Professor Fulton was appointed Instructor in 1960 and promoted to Assistant Professor in 1968. Upon her retirement in 1977, Professor Fulton was named Assistant Professor Emeritus.
RESOLUTION IN MEMORIAM (contd)
Doris E. Fulton (contd)

At The Ohio State University Doris Fulton was very involved in teaching, research and service. Professor Fulton's research was concerned with energy expenditure in homemaking tasks and resulted in several publications. She was an active member of Omicron Nu and Phi Upsilon Omicron and served as advisor for Phi Upsilon Omicron. Her interest in students was rewarded in 1972 by the receipt of the Alfred J. Wright Award.

Professor Fulton was a member of the Ohio State Home Economics Alumni Association and was volunteering with the current building campaign for Campbell Hall.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as a humble expression of the Board's heartfelt sympathy.

Upon motion of Mr. Teaford, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Teaford:

We had a report this morning on the Alcoholic and Substance Abuse Programs by Rich Hollingsworth, who is Dean of Student Life. He reported on the Faculty/Staff Assistance Program which is primarily an educational attempt, as well as the after care programs. With regards to the student program he indicated that there is counseling available within the mental health medical facilities, as well as the Counseling Center. Further, the Resource Center in the area of Student Life is working on educational programs for students on these subjects. Likewise there is dorm counselor training being carried out in order to help both identify and to assist persons with these problems. He said also that support groups like AA and ALANON are active on the campus.

He reported on a couple of grants which we are now about to get which will, again, improve the educational component of this area. He said that there were a number of areas in which this program needs more work. First of all, it needs to obtain a higher degree of visibility. In part, the fact that it is decentralized has made it more difficult for everyone to be aware of the existence of these programs. He also pointed out that this is the only state university in Ohio without an overall campus coordinator on drug and alcohol abuse and he hoped that we might be able to better coordinate those programs.

His other great regret in this area is that there really is no long-term assistance available on campus, particularly he would like to see outpatient long-term assistance. I think it is clear that one of the things that is hampering the availability of outpatient assistance is the fact that very few health insurance programs, including ours, provide any insurance to pay for outpatient care, even though it is perhaps is the best kind of care in this area.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

We had a brief report, too, about the drug testing program in our athletic programs. The interesting thing about our drug testing program is how much it has reduced abuse. When the program began the first time, 12 percent of the student athletes tested positive; the most recent tests show that to be approximately 1/10 of 1 percent. It was pointed out to us that the existence of the testing allows the student athletes to avoid and resist peer pressure. Now they can say I can't do that because I am going to get tested.

We asked about what the level of these problems were on the campus; overwhelmingly our problems are in alcohol abuse. In hard drugs, the belief is that the problem is relatively minor. We also asked about what affect abuse of alcohol or drugs has on persons dropping out of the University and we have no statistics for Ohio State. The national average is that apparently about 25-26 percent of all drop outs are indeed suffering from some kind of abuse problems. It is our suspicion that those percentages are lower on this campus. They are probably significantly lower, but we really don't have any hard data yet.

We also had reports by Dave Straub from USG. He reported on the teacher evaluation program which we have heard about before. He reported that they are working in the area of campus safety on improving the lighting in various parts of the campus. With regard to campus environment, he reported that they are attempting to create a recycling education program so that persons who are expected to be leaders in this society will be aware of the importance of such programs. He also reported that the student trustee search has been reopened. He indicated that one of the problems, he felt, in that area was the lack of available funds for sufficient advertising of the position.

We also had a report from Steve Sloan from IPC. He reported on various student trustee processes as well, and indicated that they are now attempting to integrate the student governments which are in each of the professional schools into the IPC to make them a more effective organization.

Mr. Chairman, that completes my report.

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

The committee met this morning with Dr. Bob Moser, who is head of the Ohio Cooperative Extension Service. He told us about a program that will be initiated in 1990, in which county extension agents will meet with advisory groups in each county to assess their particular needs. There are a list of needs on a national level and there are a list of needs that OCES feels Ohio has priorities, but they are going to the grass roots now. They are going out to the people and having them prepare a list. For two reasons: 1) OCES is very interested in responding to the people's needs, not something that they think they need, but something people themselves are interested in doing, and 2) because of the financial constraints. This allows the Ohio Cooperative Extension Service to put their money into areas that people have indicated they're most interested in. It looks like an exciting program. It always
December 1, 1989 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

Mrs. Bowser: (contd)

makes me proud of agriculture because it is the one place in this University where we go to the grass roots level and where it is fed back into the University in an organized manner. Because as each of you know, we do have a county extension agent in each of the 88 counties. So it is an arm of the University that reaches into every single county.

He showed us an interesting report that they have just started doing. They are doing a demographics and business profile on each county. This one happened to be in Brown County. It will be free and it gives all kinds of really very interesting and vital statistics on demographics, on jobs, on employment, and facilities. I think the committee that heard it felt that this was certainly a help, particularly to those rural counties who do not have the money to contract to have these things done. It was a very interesting report.

I don't know what is going to happen to this Board when the two farmers on the Board are no longer here. John Berry and I are the only -- we have some that we have adopted -- but Mr. Teaford was too busy running other committees this morning. It was a very interesting presentation. If there are no questions that completes my report.

(See Appendix XXXVI for Assessing Extension Program Needs at the Local Level, page 617.)

--0--

Waivers of Competitive Bidding Requirements
July - September 1989

Background

During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 38 waivers of competitive bidding requirements. Annual purchases authorized by these waivers total approximately $10,458,600.00. Of this total, approximately $4.75 million was for publications for the Libraries and other departments, and approximately $3.37 million was for professional medical services for University Hospitals. The other purchases included:

- Publications for the Libraries $4,752,874 (1 waiver)
- Professional Medical Services $3,366,760 (2 waivers)
- Emergency Helicopter Transport Services $ 206,500 (1 waiver)
- Other Hospital Services & Equipment $ 283,000 (5 waivers)
- Administrative Support Services & Equipment $ 480,758 (7 waivers)
- Artists & Attractions $ 474,035 (1 waivers)
- Teaching & Research Services & Equipment $ 330,080 (10 waivers)
December 1, 1989 meeting, Board of Trustees

Waivers of Competitive Bidding Requirements
July - September 1989 (contd)

Background (contd)

Advertising $325,000 (1 waiver)
Construction & Repair Services & Equipment $164,062 (7 waivers)
Transportation & Accommodations $75,488 (3 waivers)

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
JULY - SEPTEMBER 1989

Resolution No. 90-55

Synopsis: The Fiscal Affairs Committee recommended acceptance of the quarterly report on waivers of competitive bidding requirements.

WHEREAS the Purchasing Policy of The Ohio State University, adopted by the Board of Trustees on September 7, 1984, provides that the President and/or the Vice President for Business and Administration may grant a waiver from competitive bidding in the event of an emergency, when a sufficient economic reason exists, or when goods or services can be purchased from only a single source, with a report on such waivers to be made quarterly to this Board; and

WHEREAS the Vice President for Business and Administration has submitted a report on waivers of competitive bidding requirements granted for the period of July-September 1989, and the Fiscal Affairs Committee recommends the acceptance of this report:

NOW THEREFORE

BE IT RESOLVED, That the report on waivers of competitive bidding requirements for the period of July-September 1989, is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 90-56

Synopsis: The Fiscal Affairs Committee recommended the approval of the report of research contracts, grants, and gifts and the summary for October 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund and The Ohio State University Foundation:
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund and The Ohio State University Foundation during the month of October 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR OCTOBER 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>94</td>
<td>$9,354,349.73</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>40</td>
<td>$500,082.00</td>
</tr>
<tr>
<td>Total</td>
<td>134</td>
<td>$9,854,431.73</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

The Lewis E. Miller and Dorothy Hermann Miller Research Fund
(For research within the School of Journalism) $300,000.00

The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund
(Scholarships - School of Journalism, Departments of Aeronautical and Astronautical Engineering and Electrical Engineering, and Department of Astronomy) $21,823.00

The Ohio State University Mortar Board Alumni Endowment Fund
(To support The Ohio State University Mortar Board active chapter in funding selected programs and activities) $20,000.00

The Leona Rolles and Ernest Michael Heldt Memorial Scholarship Fund
(Scholarships - College of Education) $15,000.00

Change in Name and Description of Named Fund

From: The J. M. Shepherd Scholarship Fund
To: The Shepherd Scholarship Award
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR OCTOBER 1989 (contd)

The Ohio State University Development Fund (contd)

Change in Description of Named Fund

William H. Havener, M.D., Chair in Ophthalmology
Research Fund

The Ohio State University Foundation

Approval of Description and Establishment of Fund

The Zirkle Endowment for Undergraduate Instruction for Innovation
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION
Report - October 1989

Federal Research Contracts/Grants


$705,357.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, OSU Comprehensive Cancer Center Support (CORE) Grant, Comprehensive Cancer Center (D. E. Schuller), 1 July 1989 through 30 June 1990. (Project 763976 - Continuation)

$251,542.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Effects of Nurse Case Managed Home Care for HIV Patients, Department of Family and Community Nursing (J. T. Nickel), 30 September 1989 through 31 August 1990. (Project 767873 - New)

$246,950.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director • OARDC (N. D. Schmidt and R. F. Edwards), 1 October 1989 through 30 September 1990. (Project 766472 - Continuation)

$166,272.00 - Department of Education, Washington, D.C., Supplemental Financial Aid for Graduate Students in Mathematics, Department of Mathematics (J. R. Leitzel), 1 January 1990 through 31 December 1990. (Project 767099 - Continuation)

$152,280.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Intra Oral Grafting of Mucosal Equivalents Produced In Vitro, Diagnostic Services (C. F. Shuler), 30 September 1989 through 29 September 1990. (Project 767863 - New)

$150,102.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, A Cooperative Tropical Paleoclimatic Ice Core Study in the Cordillera Blanca, Peru and Its Relationship to Global Climatic Variability, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 September 1989 through 31 August 1990. (Project 767881 - New)


$116,542.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Comhill), 1 March 1990 through 28 February 1991. (Project 764727 - Continuation)

$107,590.00 - Department of Agriculture, Science and Education, Washington, D.C., Effect of Sorption on Fate of Pesticides in Subsurface Environments, Department of Agronomy - OARDC (S. J. Traina) and Department of Agronomy (G. K. Sims), 1 September 1989 through 31 August 1991. (Project 767880 - New)

574
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$93,452.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Fracture Properties of Dental Ceramics, Restorative and Prosthetic Dentistry (S. F. Rosenstiel), 29 September 1989 through 28 September 1990. (Project 767886 - New)

$91,197.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Pharmacology of Dideoxynucleosides in Small Intestinal Epithelium, College of Pharmacy (J. L. Au), 30 September 1989 through 31 July 1990. (Project 767895 - New)


$83,462.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 17 October 1989 through 13 April 1990. (Project 767472 - Continuation)

$72,100.00 - National Science Foundation, Washington, D.C., Superconductive Glass State and Other Properties of Granular Materials, Department of Physics (D. G. Stroud), 1 April 1990 through 31 March 1991. (Project 766614 - Continuation)

$68,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Proposal to Study Crystallization of the Glassy Grain Boundary Phase in Silicon Nitride Ceramics, Department of Materials Science and Engineering (C. H. Drummond), 1 October 1989 through 30 September 1990. (Project 766445 - Continuation)

$54,000.00 - National Science Foundation, Washington, D.C., Theoretical Studies of Equilibrium and Non-Equilibrium Multi-Layer Films, Department of Physics (W. F. Saam and C. A. Ebner), 1 May 1990 through 30 April 1991. (Project 766478 - Continuation)

$50,000.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Demonstration and Evaluation of an Expert System for Interpretation of Cerebral Palsy Gait, Department of Computer and Information Science (T. C. Bylander), 1 October 1989 through 30 September 1990. (Project 767856 - New)

$48,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Role of Carbon and Nitrogen Partitioning in Tolerance to Moisture Stress in Soybean, Department of Agronomy - OARDC and Department of Agronomy (B. A. McBlain), 1 September 1989 through 31 August 1990. (Project 767848 - New)
November 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$45,940.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Corneal Endothelial Pleomorphism From Contact Lenses, College of Optometry (J. P. Schoessler), 30 September 1989 through 31 July 1990. (Project 764852 - Continuation)

$43,371.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1989 through 31 August 1990. (Project 766355 - Continuation)


$36,754.00 - Department of Agriculture, Science and Education, Washington, D.C., Economic Assessment of Fungicide Benefits, Department of Plant Pathology - OARDC, Department of Plant Pathology, and Cooperative Extension State Operations (C. R. Curtis), Department of Entomology - OARDC (F. H. Hall), and Department of Horticulture - OARDC, Department of Horticulture, and Department of Agricultural Economics and Rural Sociology (W. T. Rhodus), 1 September 1989 through 31 August 1990. (Project 767849 - New)

$35,000.00 - United States Institute of Peace, Washington, D.C., Parchment and Swords: The Preconditions and Consequences of Arms Control Agreements, Mershon Center for Education (J. Kruzel), 1 October 1989 through 30 June 1990. (Project 767842 - New)

$33,500.00 - Department of Health and Human Services, National Library of Medicine, Bethesda, Maryland, Towards Integrating Associative and Deep Knowledge in Diagnosis, Department of Pathology (J. W. Smith and N. K. Amra), 1 July 1990 through 30 June 1991. (Project 767887 - New)

$32,739.00 - Department of Health and Human Services, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Vocal Perception in Apes: Physiological and Neuroimaging Approaches, Department of Psychology (G. G. Berntson), 30 September 1989 through 31 August 1990. (Project 767879 - New)

$32,000.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Moorestown, New Jersey, Cooperative National Plant Pest Survey and Detection Program (Ohio Plant Pest Survey), Cooperative Extension State Operations (H. R. Wilsson), 1 October 1989 through 30 September 1990. (Project 767104 - Continuation)

$31,750.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, In Vitro and In Vivo Persistence of Canine Distemper Virus, Department of Veterinary Pathobiology (G. S. Krakowka and M. J. Cogliesbee), 1 September 1989 through 31 August 1990. (Project 767020 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$30,000.00 - Department of Defense, Defense Supply Service, Washington, D.C., Military Adaptation, Mershon Center for Education (A. R. Millett) and Department of History (W. Murray), 29 September 1989 through 29 November 1989. (Project 767852 - New)

$28,000.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Humoral Factors and Cancer-Associated Hypercalcemia, Department of Veterinary Pathobiology (C. C. Capen) and Department of Radiology (J. I. Merryman), 1 October 1989 through 30 September 1990. (Project 767855 - New)

$28,000.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Fc Receptor Signal Transduction in the Human Platelet, Department of Internal Medicine (C. L. Anderson and G. P. Anderson), 1 November 1989 through 31 October 1990. (Project 767145 - Continuation)

$23,455.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., A Multifaceted Mentoring Program for Minority Students on a Regional Campus, Mansfield Campus (J. O. Riedl), 1 September 1989 through 31 August 1990. (Project 767846 - Continuation)

$19,927.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Head Injury Trauma Research Program, Department of Mechanical Engineering (R. L. Stalnaker), 15 September 1989 through 31 December 1989. (Project 767854 - New)

$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., High Temperature Superconducting Thin Film, Department of Electrical Engineering (G. J. Valco), 1 October 1989 through 30 September 1990. (Project 767084 - Continuation)

$17,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Ultraviolet Spectroscopy of Planetary Nebulae: Cosmological Implications, Department of Astronomy (G. J. Ferland, B. M. Peterson, and E. Capriotti), 15 December 1989 through 14 December 1990. (Project 766473 - Continuation)


$9,720.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver), 1 August 1989 through 31 July 1990. (Project 766385 - Continuation)

$9,000.00 - Environmental Protection Agency, Chicago, Illinois, Ohio Wastewater Treatment Conference, Cooperative Extension State Operations (K. M. Mancl), 1 October 1989 through 30 September 1990. (Project 767875 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$7,507.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, A Workshop on Analytical Methods in Unsteady Separation, Department of Mechanical Engineering (A. T. Conlisk) and Department of Aeronautical and Astronautical Engineering (R. J. Bodonyi), 1 October 1989 through 30 September 1990. (Project 767835 - New)

$7,243.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Collaborative Ocular Melanoma Study -- Clinical Center, Department of Ophthalmology (F. H. Davidorf), 1 August 1989 through 31 July 1990. (Project 765050 - Continuation)

$5,000.00 - National Foundation on the Arts and Humanities, National Endowment for the Arts, Washington, D.C., New Music: OSU Hosts International Computer Music Conference, School of Music (D. Butler and T. Wells), 1 September 1989 through 28 February 1990. (Project 767880 - New)

$3,000.00 - National Foundation on the Arts and Humanities, National Endowment for the Arts, Washington, D.C., A New Digital Audio Conversion System, School of Music (T. Wells), 1 October 1989 through 31 March 1990. (Project 767882 - New)

$2,694.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Argon Laser Trabeculoplasty Glaucoma Trial, Department of Ophthalmology (P. A. Weber), 22 February 1989 through 21 February 1990. (Project 764587 - Continuation)

TOTAL - FEDERAL AWARDS  $8,045,896.00

State of Ohio Research Contracts/Grants

$119,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Workshops for Teachers on Humane Care and Use of Animals, Office of University Laboratory Animal Resources (J. F. Comhill), 20 September 1989 through 31 December 1990. (Project 767876 - New)

$54,800.00 - State of Ohio, Department of Health, Columbus, Ohio, Comprehensive Adult Hemophilia Clinic, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 762760 - Continuation)

$50,000.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Increasing the Research Capability of the Center for Real Estate Education and Research, Academic Faculty of Finance (R. L. Racster), 1 October 1989 through 30 September 1990. (Project 767841 - New)

$50,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Central Ohio Prescribed Pediatric Extended Care Program, Nisonger Center (S. E. Thompson, E. King, and S. Schroeder), 1 October 1989 through 30 September 1990. (Project 767832 - New)

$48,252.00 - State of Ohio, Board of Regents, Columbus, Ohio, Mathematics Teaching Skills Training for Occupational Work Adjustment Instructors, Center on Education and Training for Employment (R. D. Ryan), 15 September 1989 through 31 December 1990. (Project 767904 - New)
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$20,520.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Current Issues in Managing a Real Estate Company or Office, Academic Faculty of Finance (R. L. Racster), 1 October 1989 through 30 September 1990. (Project 767851 - New)

$9,975.00 - State of Ohio, Department of Education, Columbus, Ohio, Promoting Nutrition Education for Persons with Developmental Disabilities Through the Ohio Nutrition Education and Training (NET) Program, Nisonger Center (B. W. Kozlowski), 1 October 1989 through 30 September 1990. (Project 767845 - New)

TOTAL - STATE OF OHIO AWARDS $ 352,547.00

Industrial Research Contracts/Grants

$92,908.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Tenidap Sodium to Alter the Pharmacodynamics and Plasma Protein Binding of Warfarin in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 1 June 1989 through 31 May 1990. (Project 767865 - New)

$50,000.00 - Brunswick Corporation, Marion, Virginia, Radome Research, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 October 1989 through 31 March 1990. (Project 767500 - Continuation)

$43,500.00 - Burroughs Wellcome Company, Research Triangle Park, North Carolina, An Open Continuation of Lamotrigine Protocol 05 in Epileptic Outpatients, Department of Neurology (M. E. Drake, Jr.), 1 September 1989 through 31 August 1990. (Project 767839 - Continuation)

$40,069.00 - Calreco, Inc., Van Nuys, California, Evaluation of Carob Fiber as Therapy for Chronic Diarrhea in Dogs, Department of Veterinary Clinical Sciences (R. G. Sherding and C. A. Buffington), 1 September 1989 through 31 August 1990. (Project 767871 - New)

$24,988.00 - McDonnell Douglas Technologies, Inc., San Diego, California, Dual Frequency Radome, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 24 July 1989 through 30 November 1989. (Project 767853 - Continuation)

$20,722.00 - Pfizer, Inc., Groton, Connecticut, Study No. 110-003-501, Department of Pharmacology (N. Gerber), 20 April 1989 through 19 April 1990. (Project 767514 - Continuation)


$15,000.00 - General Electric Plastics, Southfield, Michigan, Research and Development of an Advanced Class-8 Truck Cab, Department of Industrial Design (R. F. Butter and H. Goeller), 19 September 1989 through 18 September 1990. (Project 767123 - Continuation)

$13,824.00 - Pfizer, Inc., Groton, Connecticut, Study No. 124-002-501, Department of Pharmacology (N. Gerber), 17 April 1989 through 16 April 1990. (Project 767513 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)


$4,622.00 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1989 through 31 December 1989. (Project 762165 - Continuation)

TOTAL - INDUSTRIAL AWARDS $332,706.78

Other Non-Federal Research Contracts/Grants

$110,563.00 - University of Texas, Dallas, Texas, Yeast Mitochondrial DNA Recombination, Department of Molecular Genetics (P. S. Perlman), 1 September 1989 through 31 August 1990. (Project 765527 - Continuation)

$70,185.00 - Medical College of Ohio, Toledo, Ohio, Health Promotion, Disease Prevention for Older, Underserved, and Minority Older Women, Medicine Administration (G. L. Trzebiatowski), 1 October 1989 through 30 September 1990. (Project 767114 - Continuation)

$45,459.00 - Helen Keller National Center for Deaf-Blind Youth and Adults, Sands Point, New York, Technical Assistance to Helen Keller Center, Education Administration and School of Health, Physical Education, and Recreation (K. D. Arnold), 1 October 1989 through 30 September 1990. (Project 767867 - Continuation)

$40,000.00 - Twenty Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767861 - Continuation)


$35,526.00 - Southeastern Poultry and Egg Association, Decatur, Georgia, Dynamics of Influenza Virus Infection of Chicken Kidney and its Involvement as a Potential Site for Viral Persistence, Department of Veterinary Pathobiology (D. E. Swayne), 1 November 1989 through 31 October 1990. (Project 767861 - New)

$32,890.00 - American Heart Association, Dallas, Texas, How Do Actin and Gap Filaments Align at the Facia Adherens?, Department of Veterinary Anatomy and Cellular Biology (M. Yamaguchi), 1 October 1989 through 30 September 1990. (Project 766328 - Continuation)

$32,528.00 - National Multiple Sclerosis Society, New York, New York, Complement Medicated B-Cell Activation in Multiple Sclerosis, Department of Neurology (K. W. Rammohan), 1 October 1989 through 30 September 1990. (Project 767844 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)


$28,477.00 - Rutgers University, Piscataway, New Jersey, The Classification of the Finite Simple Group, Department of Mathematics (R. M. Solomon), 1 June 1989 through 31 May 1990. (Project 767616 - New)

$24,000.00 - Battelle Memorial Institute, Columbus, Ohio, Enhanced Coal Biodesulfurization Through the Genetic Modification of Bacterial Strains, Department of Microbiology (O. H. Tuovinen), 1 October 1989 through 30 September 1990. (Project 767902 - New)

$24,000.00 - Florida International University, Miami, Florida, Consortium for the Development of Professional Materials for Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767824 - Continuation)

$18,700.00 and Personnel Services - Washington State Department of Natural Resources, Olympia, Washington, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 August 1989 through 31 January 1990. (Project 766219 - Continuation) (Approximate Dollar Value $6,300)

$17,012.00 - Corporation for Public Broadcasting, Washington, D.C., Workshops on Telephone-Assisted Language Methodology for Language Instructors, Slavic and East European Languages and Literatures (L. I. Twarog), 15 September 1989 through 5 May 1990. (Project 767659 - New)

$13,750.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Lipoprotein Gene Expression in Pediatric and Adult Astrocytomas, Department of Veterinary Pathobiology (J. W. DeWille), 1 November 1989 through 31 October 1990. (Project 767890 - New)

$11,250.00 - Columbus Health Department, Columbus, Ohio, Coordination of Patient Services in Clinical Trials, Department of Internal Medicine (R. J. Fass and M. F. Para), 1 April 1989 through 30 June 1989. (Project 767667 - New)

$7,879.00 - Children's Hospital Research Foundation, Columbus, Ohio, Immune Effector Vasoactive Intestinal Peptide Receptors, Department of Internal Medicine (T. M. O'Doncio), 1 July 1989 through 30 June 1990. (Project 767667 - New)

$7,830.00 - University of Washington, Seattle, Washington, Paleoclimatology of the Holocene and the Last Interglacial, Byrd Polar Research Center and Department of Zoology (P. A. Colinvaux), 1 July 1989 through 30 September 1989. (Project 767677 - New)

$5,381.00 - American Seed Trade Association, Washington, D.C., The Use of Mono- and Polyclonal Based Serodiagnostic Assays for the Detection of Clavibacter michiganense pv. michiganense Infested Tomato Seed, Department of Plant Pathology - CARDC and Department of Plant Pathology (S. T. Nameth), 1 October 1989 through 30 September 1990. (Project 767847 - New)
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$4,509.40 - Southeastern Poultry and Egg Association, Decatur, Georgia, Rapid Test for the Detection of Campylobacter jejuni in Poultry, Department of Veterinary Preventive Medicine (J. D. Monfort), 1 October 1989 through 30 September 1990. (Project 767862 - New)


$3,200.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Cellular Dynamics of Failure-Prone Cardiomyocytes, Department of Physiology (B. T. Stokes), 29 September 1989 through 30 June 1990. (Project 767558 - Continuation)

$3,000.00 - Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia, A Study to Prepare a Management Plan for the Improvement of Educational and Manpower Systems for the Federated States of Micronesia, Center on Education and Training for Employment (R. D. Ryan), 1 August 1989 through 30 December 1989. (Project 767715 - Continuation)


$2,956.00 - Springfield-Clark Joint Vocational School Board of Education, Springfield, Ohio, Factors That Influence a Student Not to Enter Into a High School Vocational Curriculum, Department of Agricultural Education (R. K. Barrick), 1 August 1989 through 30 April 1990. (Project 767827 - New)

$2,700.00 - American Nurses' Foundation, Inc., Kansas City, Missouri, Fatigue and Pregnancy, Department of Life Span Process (M. S. Pitzer), 1 October 1989 through 30 September 1990. (Project 767884 - New)

$2,664.55 - American Nurses' Foundation, Inc., Kansas City, Missouri, Factors Influencing Adult Grief After a Parent's Death, Department of Family and Community Nursing (M. G. MacVicar), 1 October 1989 through 30 September 1990. (Project 767896 - New)

$1,540.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 March 1989 through 31 May 1989. (Project 765208 - Continuation)

$1,000.00 - American Agricultural Economics Association, Ames, Iowa, Priority Data on Agricultural and Rural Areas: A Survey of Agricultural and Rural Social Scientists, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak) and Department of Agricultural Economics and Rural Sociology (W. S. Chem and L. Tweeten), 1 April 1988 through 31 December 1989. (Project 766867 - Continuation)
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$1,000.00 - Consolidated Edison of New York, Peekskill, New York, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

$700.00 - Columbus Zoo, Powell, Ohio, Cooperative Grants Program -- The Columbus Zoo and The Ohio State University: Ovarian Steroids in Serum and Urine During the Estrous Cycle of African and Asian Elephants, Department of Zoology (J. D. Harder), 1 October 1989 through 31 December 1989. (Project 767089 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $ 623,199.95

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

$209,243.00 - from EMTEC, Kettering, Ohio, for "Casting Fine Strength Rapidly Solidified Wire," under the direction of the department of Materials Science and Engineering for the period October 1, 1989 through September 30, 1991. (312519)

$155,500.00 - from EMTEC, Kettering, Ohio, for "Microstructure and Modeling for Quality Castings," under the direction of the department of Materials Science and Engineering for the period October 1, 1989 through September 30, 1992. (312517)

$92,800.00 - from AT&T Network Systems, Columbus, Ohio, for "Application of Operations Research in Manufacturing," under the direction of the department of Industrial and Systems Engineering for the period October 1, 1989 through September 30, 1990. (529825)

$28,039.00 - from 29 sponsors of 35 development projects under the direction of three research areas of the College.

$10,000.00 - from Hughes Aircraft Corp., Malibu, California, for "Interactive CAD Environment for MODFETS and Superlattices," under the direction of the department of Electrical Engineering for the period September 1, 1989 through December 31, 1989. (312518)

$4,500.00 - from International Adsorption Society, Inc., Columbus, Ohio, for "Newsletter for the International Adsorption Society," under the direction of the department of Chemical Engineering for the period October 1, 1989 through September 30, 1992. (529824)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 500,082.00
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Lewis E. Miller and Dorothy Hermann Miller Research Fund

The Lewis E. Miller and Dorothy Hermann Miller Research Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estates of Dorothy Hermann Miller (Certificate of Pharmaceutical Chemist, '21) and her husband, Lewis E. Miller (B.S.Bus.Adm. '23).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for research by faculty members or graduate students within the School of Journalism, or for scholarships for research, with no limitation on the nature of the research. The recipients of the research awards shall be determined by a committee of faculty members appointed annually by the Director of the School of Journalism.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative official, in order to carry out the desire of the donors.

The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund

The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. Kenneth E. Kissell (B.S., Arts & Sci., '49; M.S., Physics, '58; Ph.D., Astronomy, '69) of Annandale, Virginia, and a native of Columbiana, Ohio. The Bollinger-Kissell Endowment honors the career of Loren E. Bollinger (B.S.E.E. '48; M.S., Aero Engr., '56) a science columnist with The Columbus Dispatch and Instructor, Department of Aeronautical and Astronautical Engineering (1956-1966), as well as the friendship between Dr. Kissell and Mr. Bollinger.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more annual scholarships in the School of Journalism, College of Engineering (Departments of Aeronautical and Astronautical Engineering and Electrical Engineering), and the Department of Astronomy. The scholarships shall benefit junior or senior students in the aforementioned programs who show a demonstrated interest in science writing. Recipients should be residents of the State of Ohio with a preference for students from the northeast quadrant of the State. Scholarship recipients shall be chosen by the University Committee on Student Financial Aid, in consultation with the appropriate department chairperson.
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donor.

The Ohio State University Mortar Board Alumni Endowment Fund

The Ohio State University Mortar Board Alumni Endowment Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from members, alumni, and friends of Mortar Board to commemorate the founding of Mortar Board at The Ohio State University in 1914 and to recognize Mortar Board's outstanding tradition of excellence and its contributions to the University.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for any or all of the following:

- To support timely and regular communication with the Mortar Board alumni to enhance their continuing interest and participation in Mortar Board sponsored programs and activities.
- To support The Ohio State University Mortar Board active chapter in funding selected programs and activities.
- To support selected Ohio State University programs which exemplify the ideals of Mortar Board.

All expenditures of income shall be approved in advance by the affirmative vote of a majority of the Mortar Board Alumni Council Allocations Committee. The Allocations Committee shall be composed of the president of The Ohio State University Mortar Board active chapter, the senior advisor to the Mortar Board chapter, and three Mortar Board alumni selected by the Mortar Board Alumni Council.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative official of the University who is then directly responsible for the Mortar Board Honor Society, in order to carry out the desire of the donors.
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Leona Rolfes and Ernest Michael Heldt
Memorial Scholarship Fund

The Leona Rolfes and Ernest Michael Heldt Memorial Scholarship Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Lewis Rolfes Heldt (M.A. ’51) and Ruth V. Heldt, of Toledo, Ohio, in memory of the parents of Lewis Rolfes Heldt.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to undergraduate or graduate students in the College of Education. Selection is to be based solely on academic excellence. Selection of the recipients shall be made by the Dean of the College of Education or his or her designee, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donor.

Change in Name and Description of Named Fund

The Shepherd Scholarship Award

The J. M. Shepherd Scholarship Fund was established April 3, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from J. M. Shepherd (B.Cer.E. ’58; M.B.A. ’59). The name and description were revised December 1, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarship awards to graduates of Withrow High School (Cincinnati, Ohio) who intend to enroll in the College of Engineering. Recipients shall have evidence of financial need and promise of academic achievement in any engineering discipline. If there are no eligible Withrow graduates, the award should be made available to any deserving engineering student, with preference to a graduate of any other Cincinnati public high school. The award recipient shall be selected by the Dean of the College of Engineering or his or her designee in consultation with the University Committee on Student Financial Aid. This scholarship can be renewed annually until graduation as long as each recipient maintains progress toward a degree and adequate academic qualifications.
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name and Description of Named Fund (contd)

The Shepherd Scholarship Award (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donor.

Change in Description of Named Fund

William H. Havener, M.D., Chair in Ophthalmology Research Fund

The William H. Havener, M.D., Chair in Ophthalmology Research Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from friends and colleagues in honor of William H. Havener, M.D. The description was revised December 1, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to provide support for the work of a distinguished scholar in the Department of Ophthalmology within the College of Medicine. The recipient will be recommended by a search committee, with recommendation from the Dean of the College of Medicine to the Provost, and approved by the Board of Trustees.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then the income shall be used for research into the subject of diseases of the eye as designated by the Board of Trustees, in consultation with the Dean of the College of Medicine, in order to carry out the desire of the donors.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

The Zirkle Endowment for Undergraduate Instruction for Innovation

The Zirkle Endowment for Undergraduate Instruction for Innovation was established December 1, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University, Office of Academic Affairs.
December 1, 1989 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION (contd)

Approval of Description and Establishment of Fund (contd)

The Zirkle Endowment for Undergraduate Instruction for Innovation (contd)

Income provided by the Foundation shall be used to develop and promote undergraduate instruction for innovation. Funds may be used to support faculty development; recognize and reward faculty and students who make significant contributions to innovation; encourage students to engage in new activities which generate creative thinking; fund faculty efforts to develop and implement creative experiences in the undergraduate curriculum; and support other activities which contribute to innovation and creativity as fundamental to undergraduate education. The Vice President for Academic Affairs and Provost or his/her designee shall have responsibility for authorizing expenditures from this fund.

--0--

Employment of Architects/Engineers

Biotechnology Support Facility

Background

This project will provide a Plant and Animal Support Facility, with capabilities for future expansion, to serve the Biotechnology Center in Rightmire Hall. The major components of the complex will be a 3,000 square foot headhouse, six 1,000 square foot greenhouses, a 1,200 square foot animal holding facility, a 2,500 square foot growth chamber room, and one 5-10 acre exterior plot.

Initial planning funds in the amount of $200,000 are available from University funds. Construction funds for the project are anticipated from State funds. Construction and site preparation costs for the project are estimated at $2,150,000.00, and the total estimated project cost is $2,700,000.00.

Botany and Zoology Greenhouse

This project will demolish existing ranges and construct a new greenhouse complex with standard environmental controls and improved facilities for research and teaching in the biological sciences. New facilities to be provided include 14,700 square foot of greenhouses, 10,390 square foot of botany space, 4,320 square foot of entomology space, a 2,620 square foot growth chamber building, 1,300 square foot for entomology research labs, a 350 square foot entomology quarantine facility, a 420 square foot entomology insectary, a 3,400 square foot headhouse for biological sciences, and a 1,350 square foot garden area.

Initial planning funds in the amount of $200,000 are available from University funds. Construction funds for the project are anticipated from State funds. Construction, demolition, and site preparation costs for the project are estimated at $2,170,000.00 and the total estimated project cost is $2,700,000.00.

(See Appendix XXXVII for maps, page 621.)
EMPLOYMENT OF ARCHITECTS/ENGINEERS

Resolution No. 90-57

BIOTECHNOLOGY SUPPORT FACILITY
BOTANY AND ZOOLOGY GREENHOUSE

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms for the Biotechnology Support Facility and Botany and Zoology greenhouse projects.

WHEREAS the Biotechnology Support Facility project will provide a Plant and Animal Support Facility; and

WHEREAS the total planning funds available for the project is $200,000.00, with funding provided from University funds; and

WHEREAS the Botany and Zoology Greenhouse project will demolish existing ranges and construct a new greenhouse complex; and

WHEREAS the total planning funds available for the project is $200,000.00, with funding provided from University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, in conjunction with the Department of Administrative Services, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Request for Construction Bids

Background

Morrill Tower and Lincoln Tower Residence Halls
Upgrade Treatment - Phase I

This project will repair and upgrade dormitory and auxiliary spaces in Morrill and Lincoln Towers to improve the quality of life and reduce maintenance costs. This project will be completed in two phases. The first phase will be to complete two floors of Morrill Tower to test scheduling and completeness of construction documents. The second phase will complete the remaining floors of Morrill Tower and the dormitory floors of Lincoln Tower.

Construction funds for Phase I of the project are available from Residence and Dining Halls, and construction costs are estimated at $1,210,000.00. The total estimated project cost for Phase I is $1,287,020.00.

(See Appendix XXXVIII for map, page 625).
December 1, 1989 meeting, Board of Trustees

REQUEST FOR CONSTRUCTION BIDS
Resolution No. 90-58

MORRILL TOWER AND LINCOLN TOWER RESIDENCE HALLS
UPGRADE TREATMENT - PHASE I

Synopsis: The Fiscal Affairs Committee recommended authorization to request construction bids for the Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I project.

WHEREAS the Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I project will repair and upgrade dormitory and auxiliary spaces to improve the quality of life and reduce maintenance costs; and

WHEREAS the total estimated cost of project is $1,287,020.00, with the estimated construction cost being $1,210,000.00, with funding provided from University funds:

NOW THEREFORE

BE IT RESOLVED That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Employment of Architects/Engineers and Request for Construction Bids

Background

1501 Neil Avenue Renovation

This project will repair the roofs, windows, and exterior walls, provide site improvements, renovate the mechanical and electrical systems, make necessary fire, safety, and handicapped improvements, and create a functional environment for the Mershon Center. This project will also make minor renovations to the property located at 1478 Pennsylvania Avenue to house the Mershon Center while renovations are taking place at 1501 Neil Avenue.

Construction funds are available from State appropriations and construction costs are estimated at $1,042,000.00. The total estimated project cost, which includes the purchase of the building, is estimated at $3,000,000.00.

Astronomical Instrumentation Facility

This project will construct an addition to the north side of the Maintenance Building to house personnel and equipment for the design and construction of instruments for making astronomical observations in the visible and near infrared wavelengths for the new 11.3 meter Columbus Project telescope and the existing 1.8 meter Perkins telescope.
Employment of Architects/Engineers and Request for Construction Bids (contd)

Background (contd)

Construction funds are available from University funds and construction costs are estimated at $1,066,000.00. The total estimated project cost is $1,300,000.00.

(See Appendix XXXV for maps, page 627.)

EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 90-59

1501 NEIL AVENUE RENOVATION
ASTRONOMICAL INSTRUMENTATION FACILITY

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the 1501 Neil Avenue Renovation and the Astronomical Instrumentation Facility projects.

WHEREAS the 1501 Neil Avenue Renovation project will create a functional environment to house the Mershon Center; and

WHEREAS the total estimated cost of the project is $3,000,000.00, with the estimated construction cost being $1,042,000.00, with funding provided from State Appropriations; and

WHEREAS the Astronomical Instrumentation Facility project will construct an addition to the north side of the Maintenance Building to house personnel and equipment for the design and construction of instruments for making astronomical observations; and

WHEREAS the total estimated cost of the project is $1,300,000.00, with the estimated construction cost being $1,066,000.00, with funding provided from the University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services be negotiated between the firms selected and the State of Ohio or the University, as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established State of Ohio and University procedures, and if satisfactory bids are received, to recommend award or award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
December 1, 1989 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix XXXXX for a complete tabulation of bids on all projects and locator map, page 631. Amounts shown with an * include accepted alternates.)

Veterinary Hospital - Sprinkler For Large Animal Wards

This project will provide a fire-suppression sprinkler system to protect against fire and smoke damage to the building and occupants of the large animal wards. The total project cost is $62,160.00; funding is provided from State capital appropriations (House Bill 810, Basic Renovations). The estimated completion date is May, 1990. The contract awarded is as follows:

- **Fire Protection Contract:**
  - Amount: $56,000.00 *
  - Estimate: $118,000.00 *
  - Total Contracts: $56,000.00 *

- **Contingency Allowance:** $4,160.00 (9.9% of construction cost)

- **Total Project Cost:** $62,160.00

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-60

VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARDS

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Veterinary Hospital - Sprinkler for Large Animal Wards project.

WHEREAS a resolution adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following project: Veterinary Hospital - Sprinkler for Large Animal Wards:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the Veterinary Hospital - Sprinkler for Large Animal Wards project is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.
December 1, 1989 meeting, Board of Trustees

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY
Resolution No. 90-61

Synopsis: The Fiscal Affairs Committee recommended authorization to renew an easement for an underground distribution line to the Columbus Southern Power Company at 2623 Kenny Road in Columbus, Ohio.

WHEREAS in 1974 The Ohio State University granted to the Columbus Southern Power Company a 15-year easement consisting of a strip of land approximately five feet in width and approximately 725 feet in length for the installation of underground cable to the Agronomy Barn at 2623 Kenny Road in Columbus; and

WHEREAS this easement has expired and Columbus Southern Power has requested a renewal for a 15-year period; and

WHEREAS the electric service will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXXI for map, page 635.)

EASEMENT
SOUTH CENTRAL POWER COMPANY
Resolution No. 90-62

Synopsis: The Fiscal Affairs Committee recommended authorization to renew an underground electric service easement to the South Central Power Company at Overlook Farm in Fairfield County.

WHEREAS in 1974 The Ohio State University granted to South Central Power Company a 15-year easement consisting of a strip of land approximately 15 feet in width and approximately 1,015 feet in length for electric service to the storage shed at the Overlook Farm Apartments in Fairfield County; and

WHEREAS this easement has expired and South Central Power has requested a renewal for a period of 15-years; and

WHEREAS the electric service serves University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:
December 1, 1989 meeting, Board of Trustees

EASEMENT
SOUTH CENTRAL POWER COMPANY (contd)

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXII for map, page 637.)

--0--

UPDATE ON THE NEXT BOND SALE

Mr. Nichols:

At the August meeting I had reported some basic information about our outstanding bonds which is still at $169 million, about half and half between fixed and half between variable. The projects list that I reported then was tentative, and still is tentative. No one was dropped off the list yet, so it is looking more firm.

I would like to maybe quickly tell you again what those are. The large project is clearly the PCB electrical system upgrade project, which is approximately half of the project. We have the addition to the Arps Parking Garage; the new Main Bookstore; five or six projects that involve the Athletic Department -- two of them for the steel concrete restoration of the Stadium, and the new roof for St. John Arena, the North Maintenance Facility, the scoreboard in St. John Arena, and the restoration of the turf which has already started.

In addition to that, projects that have been discussed since then that are on the tentative list are the second MRI at the Hospitals; the Water Purification System at McCracken Power Plant; ongoing modifications at the Ohio Unions; and the improvements to the Faculty Club, which you have approved recently. We have some other potential projects that could be on there that are smaller amounts.

We had previously advised people that it would be in the $30 - $50 million range. The projects that I have just given you total $42 million and I think that we are starting to focus in on where the range of that issue will be. Since I talked with you in August, the Attorney General has formally appointed Vorys, Sater, Seymour, and Pease in Columbus, to be bond counsel for this particular issue. We have proceeded through the request for proposals, interviews for investment bankers, and internally have made a selection of the investment bankers. There will be five in the syndicate. I might point out that we started a policy in the 1985 issue where rather than name a single investment banker and let them choose who would be in the syndicate, it was in the best interest of the University if we decided who was in the syndicate and made the various allocations of bonds and took a more active role, shall I say, in the management of the issue. As a result of that review, John Nuveen and Prudential-Bache are the co-leading managers, with Bache basically handling the internal mechanics of the books, as it's known in the trade. There are three co-managers: Huntington National Bank, The Ohio Company, and W. R. Lazard.
December 1, 1989 meeting, Board of Trustees

UPDATE ON THE NEXT BOND SALE (contd)

Mr. Nichols: (contd)

We are pleased with the presentations that were given by the various firms and we are very comfortable with the firms that have been chosen. I might add that I have talked with all of them personally and they are all excited to get started on the project. We anticipate that we will come back to you at either the March or April meeting with the voluminous material that accompanies bond issues and ask for your approval to sell the bonds. I might add that we had over 20 proposals for investment bankers and some time was spent in review of those.

Mr. Kessler:

Thank you, Mr. Nichols. Are there questions?

Mr. Teaford:

I have one question. I heard on there the second MRI scanner. The Hospitals Strategic Plan does not include any such program, as I understand it, nor does the Hospitals Board Capital Budget include such an item. So, I am kind of surprised to see it as something we are going to fund. I'm I right, Reed?

Mr. Reed Fraley:

At the last Hospitals Board meeting we did review the Capital Plan and the MRI was a portion of that project.

Mr. Teaford:

It was on there?

Mr. Fraley:

Yes, sir.

Mr. Teaford:

O.K., good.

Mr. Nichols:

That would require, Mr. Teaford, of course as all projects do, two elements that we think are important: 1) that the project is clearly a "go" in the sense that there are either purchase orders out there or we are well on the path; and 2) with regards to the Hospitals is that we would have to have a certificate in need in place before we could proceed. That would be necessary.

--0--
December 1, 1989 meeting, Board of Trustees

PROPOSAL FOR STIPENDS FOR GRADUATE STUDENTS

Dr. Hutchinson:

Mr. Chairman, in the past we have done our annual review of the graduate stipends that we pay here and at other institutions with whom we compete. As you know, a few years ago we chose to change the date on which we add to the stipends and moved it to January from June or September. We have chosen to continue that. It appears that we also have an obligation to maintain our relative standing which has been about third in the Big 10. We feel that that keeps us competitive in getting the best graduate students and for us to maintain that this year would require an increase of 6.5 percent on the average to graduate stipends. So we are recommending that to you.

Mr. Kessler:

Do we need a motion?

Mr. Scott:

No, we do not. This is a part of the overall budget for 1989-90, and we will see this again on a permanent basis when the President's proposal comes in May 1990.

---0---

Mr. Berry:

Since we won't have a meeting between now and the holidays, I wish everyone of you a very Merry Christmas and Happy New Year. And may the new year start with a victory for Ohio State in the Hall of Fame Bowl and Mr. Scott is in charge of that.

Mr. Scott:

Mr. Chairman, I must confess before you adjourn this meeting that I thought it was going to be 9 and 3 and the Rose Bowl. Remember I said that? And we came within a hair. Next year!

Mr. Berry:

Next year, and I'll be gone!

---0---

Thereupon the Board adjourned to meet Thursday, February 1, and Friday, February 2, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott          John W. Berry
Secretary                  Chairman
APPENDIX XXXIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
November 17, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees December 1, 1989
(See page 559)
THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
November 17, 1989

Endowment Composition

<table>
<thead>
<tr>
<th>Equities:</th>
<th>06-30-89</th>
<th>11-17-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>$34,629,320</td>
<td>$36,678,930</td>
</tr>
<tr>
<td>R. Meader</td>
<td>-</td>
<td>13.98%</td>
</tr>
<tr>
<td>Neuburger &amp; Berman</td>
<td>13,552,018</td>
<td>13,431,249</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>11,475,663</td>
<td>14,064,904</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>80,168,113</td>
<td>11,326,026</td>
</tr>
<tr>
<td>Siebel</td>
<td>32,173,227</td>
<td>32,339,011</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>-</td>
<td>32,841,236</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>-</td>
<td>9,601,781</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$171,998,341</td>
<td>$181,847,423</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fixed Income:</th>
<th>06-30-89</th>
<th>11-17-89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatman's Trust</td>
<td>$23,841,580</td>
<td>$24,178,068</td>
</tr>
<tr>
<td>Cambridge</td>
<td>951,048</td>
<td>954,594</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>10,243,208</td>
<td>10,356,222</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>-</td>
<td>10,138,176</td>
</tr>
<tr>
<td>OSU - GNRA</td>
<td>10,144,687</td>
<td>10,241,191</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>6,465,511</td>
<td>332,875</td>
</tr>
<tr>
<td>SW Fixed Income</td>
<td>24,150,270</td>
<td>24,150,270</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$75,794,204</td>
<td>$80,541,383</td>
</tr>
</tbody>
</table>

| Total Equities & Fixed Income   | $247,794,545 | $262,389,808 |

| Real Estate                     | $39,503,848 | $39,701,372 |
| Total Portfolio                 | $287,298,393 | $302,091,187 |

\(1)\) R. Meader began as advisor on August 9, 1989 with $15,000,000.
\(2)\) Wells Fargo EAFE began as advisor on October 2, 1989 with $10,000,000.
\(3)\) Wells Fargo S&P 500 began as advisor on October 6, 1989 with $30,000,000.
\(4)\) WR Lazard began as advisor on August 8, 1989 with $10,000,000.
### Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th></th>
<th>% Yield</th>
<th>% Change in Market Value November '88</th>
<th>Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equity:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago Corp.</td>
<td>3.14%</td>
<td>23.10%</td>
<td>26.24%</td>
</tr>
<tr>
<td>R. Meader</td>
<td>0.57%</td>
<td>(10.46%)</td>
<td>(9.89%)</td>
</tr>
<tr>
<td>Neuberger &amp; Barman</td>
<td>2.82</td>
<td>26.13%</td>
<td>28.95%</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>1.47</td>
<td>37.73%</td>
<td>39.20%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>5.57%</td>
<td>14.58%</td>
<td>20.15%</td>
</tr>
<tr>
<td>Siebel</td>
<td>5.14%</td>
<td>24.79%</td>
<td>29.93%</td>
</tr>
<tr>
<td>Wells Fargo ZAVE</td>
<td>0.21</td>
<td>(3.98%)</td>
<td>(3.77%)</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>0.20</td>
<td>(4.79%)</td>
<td>(4.59%)</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.86</td>
<td>28.20%</td>
<td>32.06%</td>
</tr>
<tr>
<td><strong>Real Estate:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.85%</td>
<td>8.42%</td>
<td>12.27%</td>
</tr>
<tr>
<td><strong>Fixed Income:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bostom's Trust</td>
<td>7.97%</td>
<td>10.69%</td>
<td>18.66%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>8.33%</td>
<td>4.51%</td>
<td>12.84%</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>8.12%</td>
<td>5.01%</td>
<td>13.13%</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>2.35%</td>
<td>1.38%</td>
<td>3.73%</td>
</tr>
<tr>
<td>OSU - GNEA</td>
<td>9.78%</td>
<td>3.36%</td>
<td>13.14%</td>
</tr>
<tr>
<td>OSU Managed</td>
<td>9.35%</td>
<td>(2.85%)</td>
<td>6.50%</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>8.90</td>
<td>10.75%</td>
<td>19.65%</td>
</tr>
<tr>
<td>Merrill Lynch Corporate/ Government Master</td>
<td>8.77</td>
<td>5.38%</td>
<td>14.15%</td>
</tr>
<tr>
<td>Pearson Leeman Hutton Government/ Corporate Index</td>
<td>9.27</td>
<td>2.87%</td>
<td>12.14%</td>
</tr>
</tbody>
</table>

(1) 0.6% of Chicago Corp. portfolio is made up of cash & cash equivalents earning 7.7%.  
(2) 0.3% of R. Meader portfolio is made up of cash & cash equivalents earning 7.7%.  
(3) 1.1% of Nicholas-Applegate portfolio is made up of cash & cash equivalents earning 7.7%.  
(4) 5.5% of OSU Managed portfolio is made up of cash & cash equivalents earning 8.5%.  
(5) 43.7% of Siebel portfolio is made up of cash & cash equivalents earning 8.5%.  
(6) 4.5% of Bostom’s Trust portfolio is made up of cash & cash equivalents earning 8.4%.  
(7) 100.0% of Cambridge portfolio is made up of cash & cash equivalents earning 7.7%.  
(8) 1.4% of Duff & Phelps portfolio is made up of cash & cash equivalents earning 7.7%.  
(9) 2.1% of WR Lazard portfolio is made up of cash & cash equivalents earning 7.7%.  
(10) 1.1% of OSU-GNEA portfolio is made up of cash & cash equivalents earning 8.6%.  
(11) 0.0% of CSU Managed portfolio is made up of cash & cash equivalents.  
(12) 2.2% of STW Fixed Income portfolio is made up of cash & cash equivalents earning 7.7%.  
(13) Reflects return from initial allocation (August 8, 1989) only.  
(14) Reflects return from initial allocation (October 2, 1989) only.  
(15) Reflects return from initial allocation (October 6, 1989) only.  
(16) Endowment Fund Income through November 30, 1989, totaled approximately $6,736,000.  
(17) Income from University Cash Investments through November 30, 1989, totaled approximately $7,283,000.

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>11-17-89</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-89)</td>
<td>$287,298,389</td>
<td>Equities</td>
<td>$154,836,808</td>
<td>54.56%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>10,796,020</td>
<td>Fixed Income</td>
<td>77,487,247</td>
<td>25.65%</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(80,000)</td>
<td>Real Estate</td>
<td>85,000,000</td>
<td>13.11%</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>4,095,778</td>
<td>Cash</td>
<td>20,186,132</td>
<td>6.68%</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$300,119,137</td>
<td>Total Portfolio</td>
<td>$322,119,127</td>
<td>100.00%</td>
</tr>
</tbody>
</table>
### securities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>131,000</td>
<td>Continental Illinois Corp. 0.0000% 11/01/89</td>
<td>OSU</td>
</tr>
</tbody>
</table>

### Real Estate

**Sale**

No Activity

---

600
## Common & Preferred Stock

### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,800</td>
<td>CFC International, Inc.</td>
<td>Chicago</td>
<td>65.8120</td>
<td>$184,455.60</td>
<td>$5,040.00</td>
</tr>
<tr>
<td>3,100</td>
<td>Crawford &amp; Co.</td>
<td></td>
<td>32.8750</td>
<td>102,114.00</td>
<td>1,984.00</td>
</tr>
<tr>
<td>3,800</td>
<td>Kemper Corp.</td>
<td></td>
<td>47.5000</td>
<td>180,747.00</td>
<td>3,192.00</td>
</tr>
<tr>
<td>7,400</td>
<td>Liz Claiborne, Inc.</td>
<td></td>
<td>24.4189</td>
<td>180,700.00</td>
<td>1,258.00</td>
</tr>
<tr>
<td>9,900</td>
<td>Avnet, Inc.</td>
<td>Nicholas-Applegate</td>
<td>27.4000</td>
<td>271,854.00</td>
<td>4,950.00</td>
</tr>
<tr>
<td>3,800</td>
<td>Dillard Department Stores</td>
<td></td>
<td>68.0000</td>
<td>258,628.00</td>
<td>608.00</td>
</tr>
<tr>
<td>7,100</td>
<td>National Medical Enterprises</td>
<td></td>
<td>37.2969</td>
<td>265,233.90</td>
<td>4,828.00</td>
</tr>
<tr>
<td>17,000</td>
<td>Service Corp.</td>
<td></td>
<td>15.7416</td>
<td>268,147.72</td>
<td>9,520.00</td>
</tr>
<tr>
<td>2</td>
<td>Procter &amp; Gamble Co.*</td>
<td>OSU</td>
<td>127.6900</td>
<td>255.38</td>
<td>5.60</td>
</tr>
<tr>
<td>247</td>
<td>Wendy's International*</td>
<td></td>
<td>5.3125</td>
<td>1,312.19</td>
<td>59.28</td>
</tr>
<tr>
<td>200</td>
<td>Worthington Industries, Inc.*</td>
<td></td>
<td>23.6250</td>
<td>4,725.00</td>
<td>88.00</td>
</tr>
<tr>
<td>14,900</td>
<td>American Stores</td>
<td>Sibell</td>
<td>54.8367</td>
<td>818,110.00</td>
<td>14,900.00</td>
</tr>
<tr>
<td>3,600</td>
<td>General Electric Co.</td>
<td></td>
<td>54.1110</td>
<td>195,051.60</td>
<td>5,904.00</td>
</tr>
<tr>
<td>12,000</td>
<td>Millipore Corp.</td>
<td></td>
<td>27.2265</td>
<td>327,528.00</td>
<td>4,320.00</td>
</tr>
<tr>
<td>2,300</td>
<td>Primerica Corp.</td>
<td></td>
<td>27.5640</td>
<td>63,515.20</td>
<td>664.20</td>
</tr>
</tbody>
</table>

**$3,122,397.59** $57,300.88

*Gift.*
<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain (Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,400</td>
<td>Bard (CR), Inc.</td>
<td>Chicago</td>
<td>21.3100</td>
<td>$157,207.74</td>
<td>$18,161.74</td>
</tr>
<tr>
<td>3,500</td>
<td>Becton Dickson &amp; Co.</td>
<td>&quot;</td>
<td>56.5000</td>
<td>197,515.90</td>
<td>6,723.90</td>
</tr>
<tr>
<td>6,200</td>
<td>FPL Group, Inc.</td>
<td>&quot;</td>
<td>32.7500</td>
<td>202,640.23</td>
<td>12,537.23</td>
</tr>
<tr>
<td>4,663</td>
<td>Marion Laboratories, Inc.</td>
<td>&quot;</td>
<td>33.8060</td>
<td>157,329.02</td>
<td>70,760.42</td>
</tr>
<tr>
<td>3,500</td>
<td>Nucoor Corp.</td>
<td>&quot;</td>
<td>57.6250</td>
<td>201,453.27</td>
<td>55,739.52</td>
</tr>
<tr>
<td>630</td>
<td>Vivera, Inc.</td>
<td>&quot;</td>
<td>24.3460</td>
<td>15,299.66</td>
<td>(1,634.39)</td>
</tr>
<tr>
<td>8,000</td>
<td>Clark Equipment Co.</td>
<td>Nicholas-Applegate</td>
<td>33.8125</td>
<td>270,010.97</td>
<td>11,244.37</td>
</tr>
<tr>
<td>1,700</td>
<td>Intel Corp.</td>
<td>&quot;</td>
<td>31.2500</td>
<td>53,125.00</td>
<td>5,854.37</td>
</tr>
<tr>
<td>9,000</td>
<td>Legent Corp.</td>
<td>&quot;</td>
<td>25.7365</td>
<td>231,628.10</td>
<td>(40,478.01)</td>
</tr>
<tr>
<td>7,600</td>
<td>Telephone and Data</td>
<td>&quot;</td>
<td>37.6349</td>
<td>285,599.46</td>
<td>(13,193.04)</td>
</tr>
<tr>
<td></td>
<td>Systems, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Procter &amp; Gamble Co.*</td>
<td>OSU</td>
<td>128.7518</td>
<td>256.67</td>
<td>1.22</td>
</tr>
</tbody>
</table>

* Gift.

$1,772,026.02   $125,717.20
The Ohio State University

**Bonds**

**Purchases Made During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue</th>
<th>Coupon</th>
<th>Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000</td>
<td>International Business Machines</td>
<td>8.375%</td>
<td>11/01/19</td>
<td>Boatman's</td>
<td>8.4596</td>
<td>8.4673</td>
<td>99.0000</td>
<td>$990,000.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Florida State Board of Education G.O.</td>
<td>7.250%</td>
<td>06/01/23</td>
<td>STW</td>
<td>7.2867</td>
<td>7.2899</td>
<td>99.4970</td>
<td>994,970.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Ford Credit 1989A Grantor Trust</td>
<td>8.700%</td>
<td>11/15/94</td>
<td></td>
<td>8.7355</td>
<td>8.7988</td>
<td>99.5937</td>
<td>995,937.50</td>
</tr>
<tr>
<td>1,000,000</td>
<td>New York State Dorm Series A</td>
<td>7.125%</td>
<td>05/15/17</td>
<td></td>
<td>7.4312</td>
<td>7.4799</td>
<td>95.8790</td>
<td>958,790.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Tennessee Valley Authority</td>
<td>8.625%</td>
<td>11/15/29</td>
<td></td>
<td>8.9937</td>
<td>9.0054</td>
<td>95.9000</td>
<td>959,000.00</td>
</tr>
<tr>
<td>7,220,000</td>
<td>U.S. Treasury Bond</td>
<td>10.750%</td>
<td>08/15/05</td>
<td></td>
<td>10.0185</td>
<td>9.8254</td>
<td>107.3010</td>
<td>7,747,121.25</td>
</tr>
</tbody>
</table>

$12,645,828.75
## Bonds

### Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss)</th>
<th>On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 8.875% 02/15/19</td>
<td>Boatmen's</td>
<td>110.6562</td>
<td>$1,106,562.50</td>
<td>$147,187.50</td>
<td></td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond 8.125% 08/15/19</td>
<td>Cambridge</td>
<td>101.7656</td>
<td>941,332.03</td>
<td>20,089.84</td>
<td></td>
</tr>
<tr>
<td>4,435,000</td>
<td>U.S. Treasury Note 8.875% 11/15/98</td>
<td>STW</td>
<td>105.7187</td>
<td>4,688,626.56</td>
<td>377,447.33</td>
<td></td>
</tr>
<tr>
<td>1,870,000</td>
<td>U.S. Treasury Bond 10.7500 08/15/05</td>
<td>&quot;</td>
<td>123.8645</td>
<td>2,316,265.63</td>
<td>30,185.04</td>
<td></td>
</tr>
<tr>
<td>1,000,000</td>
<td>Triborough Bridge NY-Municipal 7.125% 01/01/19</td>
<td>&quot;</td>
<td>95.7980</td>
<td>957,980.00</td>
<td>(23,270.00)</td>
<td></td>
</tr>
<tr>
<td>3,420,000</td>
<td>U.S. Treasury Bond 10.375% 11/15/12</td>
<td>&quot;</td>
<td>121.6250</td>
<td>4,159,575.00</td>
<td>374,579.99</td>
<td></td>
</tr>
</tbody>
</table>

**Total**: $14,170,341.72 $926,219.70
<table>
<thead>
<tr>
<th>Description</th>
<th>Yield</th>
<th>Acquired</th>
<th>Invented</th>
<th>Appraised Value</th>
<th>Date</th>
<th>Appraised Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 930 Kinnear Road</td>
<td>7.97%</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,550,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>3.74%</td>
<td>1984</td>
<td>825,000</td>
<td>2,650,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>21.84%</td>
<td>1961</td>
<td>659,930</td>
<td>1,250,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>17.36%</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>8.81%</td>
<td>1968</td>
<td>170,000</td>
<td>696,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>.55%</td>
<td>1971</td>
<td>100,793</td>
<td>641,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>.00%</td>
<td>1973</td>
<td>28,665 (1)</td>
<td>28,665</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00%</td>
<td>1978</td>
<td>72,714 (1)</td>
<td>72,714</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>.00%</td>
<td>1986</td>
<td>190,000</td>
<td>283,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>.00%</td>
<td>1962</td>
<td>160,265</td>
<td>2,896,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>.00%</td>
<td>1972</td>
<td>544,398</td>
<td>4,367,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>.03%</td>
<td>1968</td>
<td>310,538</td>
<td>6,853,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>.00%</td>
<td>1971</td>
<td>265,079</td>
<td>2,749,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>.19%</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>.00%</td>
<td>1965</td>
<td>24,000</td>
<td>1,080,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>.00%</td>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road</td>
<td>2.94%</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
<td></td>
</tr>
<tr>
<td>20.988 acres of land on Shier-Rings Road</td>
<td>.00%</td>
<td>1978</td>
<td>241,848</td>
<td>1,155,000</td>
<td>08/89</td>
<td></td>
</tr>
<tr>
<td>17.92 acres of land on Eitnerman Road</td>
<td>.00%</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
<td></td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>8.08%</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$11,332,370</td>
<td></td>
<td>$32,701,379</td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
Subject: Proxy Solicitations
Date: November 30, 1989
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of November 1989, the University voted five proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Ratification of independent auditors;
3) Approval of a merger agreement;
4) Approval of a common stock swap;
5) Amendment to change the company name;
6) Elimination of classification of the Board of Directors;
7) Amendment to increase authorized shares of common stock;
8) Approval of a 1989 Stock Option Plan.

The shareholder proposal was as follows:

1) Reinstate annual election of all Directors.

The University voted for all Management proposals and against the shareholder proposal, which Management also opposed.

The five corporations were:

1) Carter Hawley Hale Stores, Incorporated
2) Core States Financial Corporation
3) Marion Laboratories, Incorporated
4) The Nieman Marcus Group
5) Wallace Computer Services, Incorporated
APPENDIX XXXV

THE OHIO STATE UNIVERSITY ENDOWMENT FUND
ANNUAL TOTAL RETURN COMPARISON BY ADVISOR AND
THE OHIO STATE UNIVERSITY MANAGED STOCKS
June 30, 1989

Presented to the Investments Committee and
Adopted by the Board of Trustees December 1, 1989
(See page 561)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corporation</td>
<td>$17,500,000</td>
<td>$54,629,320</td>
<td>15.0%</td>
<td>(2.3)%</td>
<td>11.1%</td>
<td>13.2%</td>
<td>27.3%</td>
<td>29.9%</td>
<td>(5.0)%</td>
</tr>
<tr>
<td>Reubner &amp; Barney (Mutual Funds)</td>
<td>$3,008,000</td>
<td>$13,552,000</td>
<td>18.4%</td>
<td>(5.3)%</td>
<td>19.5%</td>
<td>23.4%</td>
<td>27.6%</td>
<td>(2.3)%</td>
<td>46.7%</td>
</tr>
<tr>
<td>Nicholas-Applegate (1)</td>
<td>$10,600,000</td>
<td>$81,475,643</td>
<td>11.7%</td>
<td>(6.9)%</td>
<td>13.0%</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Global Capital Management</td>
<td>$13,500,000</td>
<td>$10,173,527</td>
<td>20.9%</td>
<td>1.7%</td>
<td>0.0%</td>
<td>29.3%</td>
<td>31.1%</td>
<td>(8.9)%</td>
<td>50.3%</td>
</tr>
<tr>
<td>OU Managed Equities</td>
<td>$11,600,000</td>
<td>$52,552,000</td>
<td>19.4%</td>
<td>2.1%</td>
<td>4.4%</td>
<td>47.4%</td>
<td>55.1%</td>
<td>4.0%</td>
<td>56.1%</td>
</tr>
<tr>
<td>Standard &amp; Poor's 500 Index</td>
<td>$20,400,000</td>
<td>$61,424,576</td>
<td>20.4%</td>
<td>(7.0)%</td>
<td>24.9%</td>
<td>35.5%</td>
<td>30.9%</td>
<td>(4.7)%</td>
<td>61.4%</td>
</tr>
</tbody>
</table>

**SEI (2)**

<table>
<thead>
<tr>
<th>Percentile</th>
<th>5th</th>
<th>25th</th>
<th>Median</th>
<th>75th</th>
<th>95th</th>
</tr>
</thead>
<tbody>
<tr>
<td>5th Percentile</td>
<td>27.4%</td>
<td>3.2%</td>
<td>20.2%</td>
<td>49.4%</td>
<td>28.5%</td>
</tr>
<tr>
<td>25th Percentile</td>
<td>21.0%</td>
<td>-2.1%</td>
<td>20.2%</td>
<td>38.6%</td>
<td>31.6%</td>
</tr>
<tr>
<td>Median</td>
<td>18.8%</td>
<td>-5.0%</td>
<td>19.3%</td>
<td>34.0%</td>
<td>27.2%</td>
</tr>
<tr>
<td>75th Percentile</td>
<td>15.3%</td>
<td>-7.9%</td>
<td>15.7%</td>
<td>29.8%</td>
<td>23.4%</td>
</tr>
<tr>
<td>95th Percentile</td>
<td>10.7%</td>
<td>-12.3%</td>
<td>8.5%</td>
<td>21.6%</td>
<td>16.0%</td>
</tr>
</tbody>
</table>

(1) Initial allocation made on June 12, 1986.
(2) SEI data obtained from Duff & Phelps.
The Ohio State University Endowment Fund
Annual Total Return Comparison by Adviser

<table>
<thead>
<tr>
<th>Equity Advisers</th>
<th>1 Year</th>
<th>2 Year</th>
<th>3 Year</th>
<th>5 Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corporation</td>
<td>13.01%</td>
<td>0.01%</td>
<td>17.91%</td>
<td>15.91%</td>
</tr>
<tr>
<td>Neuberger &amp; Berman (Mutual Funds)</td>
<td>10.43%</td>
<td>11.01%</td>
<td>16.51%</td>
<td>16.11%</td>
</tr>
<tr>
<td>Steinhard-Apgar (1)</td>
<td>4.21%</td>
<td>5.48%</td>
<td>6.31%</td>
<td>6.39%</td>
</tr>
<tr>
<td>Siebel Capital Management</td>
<td>13.50%</td>
<td>0.08%</td>
<td>16.61%</td>
<td>16.31%</td>
</tr>
<tr>
<td>CRU Managed Equities</td>
<td>10.94%</td>
<td>8.44%</td>
<td>22.91%</td>
<td>22.04%</td>
</tr>
<tr>
<td>Standard &amp; Poor's 500 Index</td>
<td>20.43%</td>
<td>12.01%</td>
<td>20.21%</td>
<td>17.01%</td>
</tr>
</tbody>
</table>

SEI:
- 5th Percentile: 27.42% 15.91% 22.02% 21.31%
- 25th Percentile: 21.08% 15.01% 21.01% 16.71%
- Median: 18.50% 11.62% 19.21% 16.82%
- 75th Percentile: 15.56% 8.71% 17.52% 15.42%
- 95th Percentile: 10.94% 5.30% 15.13% 15.71%

* All returns and market value of investments managed as of June 30, 1999.
(1) Initial allocation made on June 12, 1996.

GII/neo
COMPLIANT

The Ohio State University
Office of the Treasurer
### Annual Total Return Comparison by Advisor

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatman's Trust Company (1)</td>
<td>$20,000,000</td>
<td>20.72</td>
<td>3.53</td>
<td>5.01</td>
<td>30.36</td>
<td>38.71</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Cambridge (2)</td>
<td>$1,000,000</td>
<td>11.92</td>
<td>(1.12)</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Duff &amp; Phelps (2)</td>
<td>$10,000,000</td>
<td>11.32</td>
<td>7.72</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>STM Fixed Income (1)</td>
<td>$20,000,000</td>
<td>18.62</td>
<td>6.62</td>
<td>1.36</td>
<td>40.62</td>
<td>43.32</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>OSU - GBMA (2)</td>
<td>$10,000,000</td>
<td>11.02</td>
<td>9.52</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>OSU Managed Fixed Income</td>
<td>4.52</td>
<td>2.52</td>
<td>9.52</td>
<td>13.52</td>
<td>25.52</td>
<td>0.32</td>
<td>32.92</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Shearson Lehman Government/Fixed Income Index</td>
<td>12.32</td>
<td>5.02</td>
<td>4.32</td>
<td>20.12</td>
<td>28.22</td>
<td>1.32</td>
<td>29.22</td>
<td>12.32</td>
<td>(3.02)</td>
<td>2.82</td>
</tr>
</tbody>
</table>

**SEI:**

| 5th Percentile | 16.11 | 10.11 | 8.51 | 27.81 | 36.62 | 7.32 | 56.72 | 15.92 | 6.12 | 11.02 |
| 25th Percentile | 10.41 | 8.64 | 6.51 | 22.81 | 29.82 | 3.91 | 30.62 | 13.82 | (1.01) | 6.82 |
| Median | 10.02 | 10.02 | 5.81 | 19.52 | 26.82 | 1.82 | 28.72 | 11.92 | (6.52) | 4.52 |
| 75th Percentile | 9.52 | 7.12 | 4.88 | 14.82 | 22.82 | (0.21) | 23.82 | 10.32 | (6.72) | 2.32 |
| 95th Percentile | 8.52 | 5.02 | 2.82 | 10.22 | 17.02 | (0.81) | 14.42 | 8.62 | (10.12) | (0.42) |


(1) Initial allocation made on December 1, 1983.

(2) Initial allocation made on July 20, 1987.

The Ohio State University
Office of the Treasurer
<table>
<thead>
<tr>
<th>Adviser</th>
<th>1 Year</th>
<th>2 Year</th>
<th>3 Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boeckman's Trust Company (1)</td>
<td>20.71</td>
<td>9.01</td>
<td>19.01</td>
</tr>
<tr>
<td>$20,000,000/$23,707,570</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cambridge (2)</td>
<td>11.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$20,000,000/$39,456,555</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duff &amp; Phelps (2)</td>
<td>11.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000,000/$10,599,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STV Fixed Income (1)</td>
<td>18.01</td>
<td>6.91</td>
<td>21.21</td>
</tr>
<tr>
<td>$20,000,000/$21,013,030</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSU-CIMA (2)</td>
<td>11.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000,000/$10,144,267</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSU Managed Fixed Income</td>
<td>4.52</td>
<td>5.51</td>
<td>10.71</td>
</tr>
<tr>
<td>Sherwood Lehman Government/Corporate Bond Index</td>
<td>12.32</td>
<td>9.11</td>
<td>14.42</td>
</tr>
</tbody>
</table>

**SFI:**
- 5th Percentile: 14.11
- 10th Percentile: 12.44
- Median: 10.31
- 75th Percentile: 9.51
- 90th Percentile: 8.33
- 95th Percentile: 7.01
- 99th Percentile: 6.01

* Allocation and market value of Investments managed as of June 30, 1989.

(1) Initial allocation made on December 1, 1983.
(2) Initial allocation made on July 20, 1987.

The Ohio State University
Office of the Treasurer
<table>
<thead>
<tr>
<th>Stock</th>
<th>No. of Shares</th>
<th>Cost Per Share</th>
<th>Total Cost</th>
<th>Market Value Per Share</th>
<th>Market Value</th>
<th>% of Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Electric Power</td>
<td>30,669</td>
<td>15.9177</td>
<td>$488,179.94</td>
<td>27.7500</td>
<td>$851,064.75</td>
<td>2.92%</td>
</tr>
<tr>
<td>Anderson Partnership</td>
<td>N/A</td>
<td>N/A</td>
<td>1,070,000.00</td>
<td>N/A</td>
<td>1,070,000.00</td>
<td>3.67%</td>
</tr>
<tr>
<td>Bank One Corp.</td>
<td>147,377</td>
<td>8.5725</td>
<td>1,263,389.33</td>
<td>33.5000</td>
<td>4,937,129.50</td>
<td>16.93%</td>
</tr>
<tr>
<td>Citizens Utilities Co.</td>
<td>82,137</td>
<td>5.3053</td>
<td>435,761.43</td>
<td>46.2500</td>
<td>3,798,836.25</td>
<td>13.03%</td>
</tr>
<tr>
<td>Huntington Bancshares</td>
<td>151,595</td>
<td>4.8599</td>
<td>736,736.54</td>
<td>22.1250</td>
<td>3,354,039.38</td>
<td>11.50%</td>
</tr>
<tr>
<td>National City Corp.</td>
<td>53,865</td>
<td>10.2287</td>
<td>550,968.93</td>
<td>35.5000</td>
<td>1,912,207.50</td>
<td>6.56%</td>
</tr>
<tr>
<td>Student Loan Mkt-Non-voting</td>
<td>7,450</td>
<td>0.7143</td>
<td>5,321.54</td>
<td>100.2500</td>
<td>746,862.50</td>
<td>2.56%</td>
</tr>
<tr>
<td>Student Loan Mkt-Voting</td>
<td>7,866</td>
<td>0.7143</td>
<td>5,618.68</td>
<td>89.7500</td>
<td>705,973.50</td>
<td>2.42%</td>
</tr>
<tr>
<td>The Limited Inc.</td>
<td>224,512</td>
<td>24.2511</td>
<td>5,444,662.96</td>
<td>31.6250</td>
<td>7,100,192.00</td>
<td>24.35%</td>
</tr>
<tr>
<td>Wendy's International Inc.</td>
<td>296,840</td>
<td>5.3284</td>
<td>1,581,682.26</td>
<td>5.8750</td>
<td>1,743,935.00</td>
<td>5.98%</td>
</tr>
<tr>
<td>Worthington Industries</td>
<td>84,981</td>
<td>13.9200</td>
<td>1,182,935.52</td>
<td>22.2500</td>
<td>1,890,827.25</td>
<td>6.49%</td>
</tr>
<tr>
<td>Miscellaneous Stocks</td>
<td>N/A</td>
<td>N/A</td>
<td>1,520,052.86</td>
<td>N/A</td>
<td>1,044,589.75</td>
<td>3.58%</td>
</tr>
<tr>
<td><strong>TOTAL PORTFOLIO</strong></td>
<td></td>
<td></td>
<td>$14,285,309.98</td>
<td><strong>$29,155,657.38</strong></td>
<td>100.00%</td>
<td></td>
</tr>
<tr>
<td>Security</td>
<td>Par Value</td>
<td>Unit Cost</td>
<td>Total Cost</td>
<td>Price</td>
<td>Total Market Value</td>
<td>% of Assets</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------</td>
<td>-----------</td>
<td>------------</td>
<td>-------</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Continental Illinois Corp. 0.000% Due 11-01-89</td>
<td>131,000</td>
<td>47.4000</td>
<td>$62,094.00</td>
<td>96.7500</td>
<td>$126,742.50</td>
<td>27.24%</td>
</tr>
<tr>
<td>Rapid American Corp. 10.750% Due 12-01-03</td>
<td>375,000</td>
<td>73.0000</td>
<td>273,750.00</td>
<td>60.0000</td>
<td>225,000.00</td>
<td>48.37%</td>
</tr>
<tr>
<td>U.S. Treasury Note 14.875% Due 08-15-91</td>
<td>100,000</td>
<td>99.9688</td>
<td>99,968.75</td>
<td>113.4688</td>
<td>113,468.75</td>
<td>24.39%</td>
</tr>
<tr>
<td>TOTAL PORTFOLIO</td>
<td>$435,812.75</td>
<td></td>
<td>$465,211.25</td>
<td></td>
<td></td>
<td>100.00%</td>
</tr>
<tr>
<td>----------</td>
<td>----------</td>
<td>-----------</td>
<td>------------</td>
<td>-------</td>
<td>--------------</td>
<td>------------</td>
</tr>
<tr>
<td>121,182</td>
<td>GNMA</td>
<td>104.87</td>
<td>127,089.58</td>
<td>103.53</td>
<td>125,461.20</td>
<td>1.2</td>
</tr>
<tr>
<td>694,951</td>
<td>GNMA</td>
<td>104.87</td>
<td>728,829.87</td>
<td>103.53</td>
<td>719,491.47</td>
<td>7.1</td>
</tr>
<tr>
<td>24,092</td>
<td>GNMA</td>
<td>104.88</td>
<td>25,266.74</td>
<td>103.53</td>
<td>24,942.99</td>
<td>0.2</td>
</tr>
<tr>
<td>146,570</td>
<td>GNMA</td>
<td>99.50</td>
<td>145,836.16</td>
<td>101.62</td>
<td>148,951.80</td>
<td>1.5</td>
</tr>
<tr>
<td>274,192</td>
<td>GNMA</td>
<td>104.31</td>
<td>286,016.15</td>
<td>103.97</td>
<td>285,074.48</td>
<td>2.8</td>
</tr>
<tr>
<td>567,819</td>
<td>GNMA</td>
<td>104.25</td>
<td>591,951.70</td>
<td>103.97</td>
<td>590,354.72</td>
<td>5.8</td>
</tr>
<tr>
<td>329,377</td>
<td>GNMA</td>
<td>93.81</td>
<td>308,996.36</td>
<td>97.81</td>
<td>322,171.42</td>
<td>3.2</td>
</tr>
<tr>
<td>948,837</td>
<td>GNMA</td>
<td>95.75</td>
<td>908,511.68</td>
<td>97.81</td>
<td>928,081.44</td>
<td>9.1</td>
</tr>
<tr>
<td>290,683</td>
<td>GNMA</td>
<td>95.16</td>
<td>276,603.02</td>
<td>97.81</td>
<td>284,324.29</td>
<td>2.8</td>
</tr>
<tr>
<td>935,408</td>
<td>GNMA</td>
<td>95.63</td>
<td>894,484.24</td>
<td>97.81</td>
<td>914,946.29</td>
<td>9.0</td>
</tr>
<tr>
<td>919,499</td>
<td>GNMA</td>
<td>98.56</td>
<td>906,280.54</td>
<td>99.94</td>
<td>918,924.27</td>
<td>9.1</td>
</tr>
<tr>
<td>989,458</td>
<td>GNMA</td>
<td>100.69</td>
<td>996,260.29</td>
<td>102.09</td>
<td>1,010,174.87</td>
<td>10.0</td>
</tr>
<tr>
<td>949,831</td>
<td>GNMA</td>
<td>97.69</td>
<td>927,865.90</td>
<td>99.94</td>
<td>949,237.07</td>
<td>9.4</td>
</tr>
<tr>
<td>383,208</td>
<td>GNMA</td>
<td>101.62</td>
<td>389,434.64</td>
<td>102.09</td>
<td>391,230.93</td>
<td>3.9</td>
</tr>
</tbody>
</table>
The Ohio State University Endowment
PORTFOLIO APPRAISAL
OSU-GNMA Fund
June 30, 1989

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>957,626</td>
<td>GNMA #219379</td>
<td>100.69</td>
<td>964,209.16</td>
<td>102.09</td>
<td>977,676.06</td>
<td>9.6</td>
<td>9.8</td>
</tr>
<tr>
<td></td>
<td>10.000% Due 08-15-17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>484,035</td>
<td>GNMA #231333</td>
<td>101.62</td>
<td>491,900.74</td>
<td>102.09</td>
<td>494,169.98</td>
<td>4.9</td>
<td>9.8</td>
</tr>
<tr>
<td></td>
<td>10.000% Due 08-15-17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>964,016</td>
<td>GNMA #231145</td>
<td>97.81</td>
<td>942,927.67</td>
<td>99.94</td>
<td>963,413.43</td>
<td>9.5</td>
<td>9.5</td>
</tr>
<tr>
<td></td>
<td>9.500% Due 08-15-17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9,912,464.44</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CASH AND EQUIVALENTS
------------------------------

<table>
<thead>
<tr>
<th>OSU-GNMA NCC Money Market</th>
<th>96,261.49</th>
<th>96,261.49</th>
<th>0.9</th>
<th>8.6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96,261.49</td>
<td>96,261.49</td>
<td>0.9</td>
<td>8.6</td>
</tr>
<tr>
<td>TOTAL PORTFOLIO</td>
<td>10,008,725.93</td>
<td>10,144,888.19</td>
<td>100.0</td>
<td>9.6</td>
</tr>
</tbody>
</table>
APPENDIX XXXVI

ASSESSING EXTENTION PROGRAM NEEDS AT THE LOCAL LEVEL

Presented to the Agricultural Affairs Committee
(See page 570)
AGRICULTURE AFFAIRS COMMITTEE
BOARD OF TRUSTEES
December 1, 1989

ASSESSING EXTENSION PROGRAM NEEDS AT THE LOCAL LEVEL

* NATIONAL INITIATIVES

The Ohio Cooperative Extension Service is part of the national Cooperative Extension System. Eight National Priority Initiatives have been identified as the agenda focus leading into the 21st century:

- Alternative Agricultural Opportunities
- Building Human Capital
- Competitiveness and Profitability of American Agriculture
- Conservation and Management of Natural Resources
- Family and Economic Well-Being
- Improving Nutrition, Diet and Health
- Revitalizing Rural America
- Water Quality

* OHIO ISSUES

As a result of a comprehensive long-range planning process which involved a cross section of Ohio citizens (December, 1987), six issues critical to Ohio were formulated:

- Financial Survival in Agriculture
- Rural Revitalization
- Family Well-Being
- Preparing Youth for Responsibility
- Water Quality
- Leadership
* COUNTY DEMOGRAPHIC INFORMATION

A jointly funded project of OCES and the Job Training Partnership Act has made possible the development of Ohio Community Notebook and computer data base. Sam Crawford, OCES Community Development Specialist is able to generate county demographic profiles using the most current statistical data available. Following are examples of what county profiles include:

- population projections
- per capita income
- business growth and change
- sources of county income
- race, age, marital status analyses

* COUNTY NEEDS ASSESSMENT

Needs Assessment for the Ohio Cooperative Extension Service is the process of identifying the most critical issues/needs of people within the mission of OCES. Coordination of the process will be managed through the Leader, Program Development. A committee will be involved in developing a package of needs assessment formats for county faculty to use throughout 1990.

* PLAN OF WORK

The Annual Plans of Work of county faculty are used to develop a statewide four year plan. The plans reflect the coordination of county needs, Ohio issues, and National Initiatives.

The Extension Program Planning Process is a comprehensive model including:

- Planning

The development of a specific program based upon identified needs. Plans include objectives, target audiences, proposed teaching methods, and steps to involve local clients.

- Implementation

This stage includes timetables, marketing strategies for specific programs, development of appropriate teaching materials and actual procedures for conducting programs.

- Evaluation and Reporting

Evaluation includes assessment of program impacts regarding individual and community change. Reporting involves aggregation of data for county, state and federal funding sources and for marketing programs.
Page 620 is blank
APPENDIX XXXVII

BIOTECHNOLOGY SUPPORT FACILITY
BOTANY AND ZOOLOGY GREENHOUSE

Adopted by the Board of Trustees December 1, 1989
(See page 588)
BIOTECHNOLOGY SUPPORT FACILITY

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989
BOTANY AND ZOOLOGY
GREENHOUSE

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989
Page 624 is blank
APPENDIX XXXVIII

MORRILL TOWER AND LINCOLN TOWER
RESIDENCE HALLS UPGRADE TREATMENT - PHASE I

Adopted by the Board of Trustees December 1, 1989
(See page 589)
MORRILL TOWER AND LINCOLN TOWER RESIDENCE HALLS UPGRADE TREATMENT - PHASE I

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989
APPENDIX XXXVIV

1501 NEIL AVENUE RENOVATION AND
ASTRONOMICAL INSTRUMENTATION FACILITY

Adopted by the Board of Trustees December 1, 1989
(See page 591)
ASTRONOMICAL INSTRUMENTATION FACILITY

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1989
Page 630 is blank
APPENDIX XXXX

VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARDS

Adopted by the Board of Trustees December 1, 1989
(See page 592)
December 1, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARD

Tabulation of Bids

Bids received by The Ohio State University on October 12, 1989. Bids opened by Tamara Bell and tabulated by Ray Yamasick. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>Fire Protection Contract</th>
<th>Estimate</th>
<th>Colligan Fire *</th>
<th>Company</th>
<th>Delisting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$115,000.00</td>
<td>$52,000.00</td>
<td>$53,000.00</td>
<td>$64,000.00</td>
</tr>
<tr>
<td>Alt. F-1 (Add'l Sprinklers)</td>
<td>3,000.00</td>
<td>4,000.00</td>
<td>3,700.00</td>
<td>500.00</td>
</tr>
<tr>
<td>Total Fire Prot. Contract</td>
<td>$118,000.00</td>
<td>$56,000.00</td>
<td>$56,700.00</td>
<td>$68,500.00</td>
</tr>
</tbody>
</table>
VETERINARY HOSPITAL
SPRINKLER FOR LARGE
ANIMAL WARDS

OFFICE OF BUSINESS AND ADMINISTRATION
DECEMBER 1, 1969
Page 634 is blank
APPENDIX XXXXI

COLUMBUS SOUTHERN POWER COMPANY
EASEMENT RENEWAL

Adopted by the Board of Trustees December 1, 1989
(See page 593)
Columbus Southern Power Company Easement Renewal

Agronomy Field Headquarters
2623 Kenny Road

Office of Business and Administration
December 1, 1989
South Central Power Company Easement Renewal at Overlook Farm

Office of Business and Administration
December 1, 1989
INDEX TO OFFICERS AND EMPLOYEES

1989-90

Volume 1

A

Adams, John L........................................ 41
Adler, Laszlo........................................ 381
Adrian, William .................................... 28
Ahuja, Anita......................................... 33
Al-Awwa, Abdulkader............................... 33
Albarracin, Narciso S............................... 40
Alfes, John C....................................... 33
Alford-McIntosh, Sara S............................ 46
Allen, Carl M........................................ 51
Allen, Elizabeth D................................. 42
Allen, Hugh D....................................... 41
Allen, James N...................................... 36
Allen, John G........................................ 39
Amborski, James D.................................. 52
Amra, Nasir K....................................... 41
Andersen, Katherine A.............................. 33
Anderson, Clark L................................... 29, 36
Anderson, Douglas R............................... 52
Anderson, F. James.................................. 29
Anderson, Homer A................................. 41
Anderson, Mark W................................... 52
Andrews, Julia F.................................... 304
Andrews, Madeleine................................. 27
Anglin, David L...................................... 41
App, George R........................................ 51
Applegate, Mary S................................... 33
Arn, Anthony....................................... 30
Arnold, L. Eugene................................... 47
Atchison, James W................................. 43
Atkinson, Lisa A..................................... 38
Ault, Kevin A........................................ 38
Auseon, John Charles............................... 30
Austin, Carol D...................................... 25
Avalos, Belinda R................................... 34
Axelson, David B.................................... 46
Ayers, Randall D.................................... 23
Ayres, Leona B.H.................................. 40

Baldwin, Robert M................................. 41
Balke, Len D........................................ 46
Banks, Joseph H..................................... 41
Bannai, Eichi........................................ 303
Bansal, Girraj K..................................... 32
Barg, Michael S..................................... 38
Barker, Raymond E................................... 30
Barone, John J...................................... 9, 53, 296, 306, 561
Barr, Robin F........................................ 38
Bauer, Stephen R.................................... 41
Bauer-Giffin, Constance J......................... 48
Bay, William H...................................... 36
Bayne, Bonnie J...................................... 29
Bazzoli, Allan S...................................... 43
Beattie, James F..................................... 37
Bechtel, Mark A...................................... 31
Becker, William J.................................... 41
Beggin, Bryan E...................................... 29
Behrens, Brent C.................................... 35
Behrmann, Donald L................................. 49
Bell, David C........................................ 37
Bell, Jeffrey G....................................... 37
Beltran, Javier...................................... 47
Berman, Floyd M.................................... 32
Benes, Susan......................................... 38
Bennett, Robert...................................... 38
Bennett, William F................................. 47
Beran, Robin F....................................... 38
Berry, John W....................................... 55, 103, 142, 158, 296, 394
Besson, Michael J................................... 38
Betts, Robert K...................................... 28
Bhat, Prashanth...................................... 45
Binkley, Philip F..................................... 30
Binkley, William F................................. 32
Birck, Herbert George.............................. 40
Birskovich, Lorraine M.............................. 32
Bisaccia, Emil........................................ 31
Bishop, James J..................................... 299
Bisker, Jeffrey S.................................... 566
Bixel, Janet K....................................... 31
Blakeley, Dean D.................................... 33
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DaBreo, Ernest L.</td>
<td>51</td>
</tr>
<tr>
<td>Dahl, Mark R.</td>
<td>27</td>
</tr>
<tr>
<td>Dangel, Matthew</td>
<td>38</td>
</tr>
<tr>
<td>Darnell, Mark T.</td>
<td>45</td>
</tr>
<tr>
<td>Davakis, Nicholas J.</td>
<td>30</td>
</tr>
<tr>
<td>Davdoff, Elliot</td>
<td>38</td>
</tr>
<tr>
<td>Davdorff, Frederick H.</td>
<td>38</td>
</tr>
<tr>
<td>Davies, A. Robert</td>
<td>32</td>
</tr>
<tr>
<td>Davies, Barbara L.</td>
<td>50</td>
</tr>
<tr>
<td>Davies, David E.</td>
<td>45</td>
</tr>
<tr>
<td>Davis, John B.</td>
<td>51</td>
</tr>
<tr>
<td>Davis, Laurel A.</td>
<td>59,389-394</td>
</tr>
<tr>
<td>Davis, Loretta S.</td>
<td>31</td>
</tr>
<tr>
<td>Davis, William B.</td>
<td>36</td>
</tr>
<tr>
<td>Davis, William R.</td>
<td>30</td>
</tr>
<tr>
<td>Dawdy, W. David</td>
<td>41</td>
</tr>
<tr>
<td>De Los Santos, Edith T.</td>
<td>32</td>
</tr>
<tr>
<td>Dearmont, Karen E.</td>
<td>38</td>
</tr>
<tr>
<td>deGroot, Christopher M.</td>
<td>46</td>
</tr>
<tr>
<td>DelOffton, Daniel A.</td>
<td>51</td>
</tr>
<tr>
<td>Del Rosario, Antonio J.</td>
<td>41</td>
</tr>
<tr>
<td>Delaveris, Steven L.</td>
<td>32</td>
</tr>
<tr>
<td>deLevis, Judith G.</td>
<td>41</td>
</tr>
<tr>
<td>DeMedico, Valerie J.</td>
<td>46</td>
</tr>
<tr>
<td>DeMarla, Jess J.</td>
<td>31</td>
</tr>
<tr>
<td>Demas, Christopher L.</td>
<td>382</td>
</tr>
<tr>
<td>Denlinger, David E.</td>
<td>38</td>
</tr>
<tr>
<td>Derick, Robert J.</td>
<td>39</td>
</tr>
<tr>
<td>Dembach, Frances D.</td>
<td>30,33</td>
</tr>
<tr>
<td>Deutsch, David E.</td>
<td>42</td>
</tr>
<tr>
<td>deVette, Virginia K.</td>
<td>41</td>
</tr>
<tr>
<td>DeVoe, Keith, Jr.</td>
<td>37</td>
</tr>
<tr>
<td>DeVoe, Stephen J.</td>
<td>37</td>
</tr>
<tr>
<td>Diaz, Donna T.</td>
<td>38</td>
</tr>
<tr>
<td>Diaz, Philip T.</td>
<td>36</td>
</tr>
<tr>
<td>DiBenedetto, Michael R.</td>
<td>50</td>
</tr>
<tr>
<td>Dick, Michael R.</td>
<td>45</td>
</tr>
<tr>
<td>Dietrich, Ann M.</td>
<td>42</td>
</tr>
<tr>
<td>Dils, Lawrence</td>
<td>28</td>
</tr>
<tr>
<td>Dilsaver, Steven C.</td>
<td>46</td>
</tr>
<tr>
<td>Dingle, J.B.</td>
<td>382</td>
</tr>
<tr>
<td>DInsinger, John F.</td>
<td>24</td>
</tr>
<tr>
<td>Dixon, Evan W.</td>
<td>30</td>
</tr>
<tr>
<td>Dixon, Gerald F.</td>
<td>32</td>
</tr>
<tr>
<td>Dodds, William G.</td>
<td>37</td>
</tr>
<tr>
<td>Doddy, Karyn R.</td>
<td>44</td>
</tr>
<tr>
<td>Donaldson, Edward E.</td>
<td>41</td>
</tr>
<tr>
<td>Donat, Jane F.</td>
<td>382</td>
</tr>
<tr>
<td>Donnerberg, Roy L.</td>
<td>36</td>
</tr>
<tr>
<td>Donovan, Lorna F.</td>
<td>41</td>
</tr>
<tr>
<td>Dorinsky, Paul M.</td>
<td>36</td>
</tr>
<tr>
<td>Douce, Louise A.</td>
<td>53</td>
</tr>
<tr>
<td>Douglas, James W.</td>
<td>38</td>
</tr>
<tr>
<td>Dreyer, Jeffrey R.</td>
<td>45</td>
</tr>
<tr>
<td>Dubin, Alex R.</td>
<td>41</td>
</tr>
<tr>
<td>Dumont, Robert C.</td>
<td>42</td>
</tr>
<tr>
<td>Durante, Jose' A.</td>
<td>28</td>
</tr>
<tr>
<td>Dyke, Wade T.</td>
<td>304</td>
</tr>
<tr>
<td>Eaton, Lynn A.</td>
<td>38</td>
</tr>
<tr>
<td>Eckhardt, Alfred J.</td>
<td>37</td>
</tr>
<tr>
<td>Edgin, Richard A.</td>
<td>32</td>
</tr>
<tr>
<td>Eicher, Donald M.</td>
<td>35</td>
</tr>
<tr>
<td>Eisenhut, Rand E.</td>
<td>42</td>
</tr>
<tr>
<td>Elzinga, Darryl J.</td>
<td>40</td>
</tr>
<tr>
<td>Eng, Eudora</td>
<td>36</td>
</tr>
<tr>
<td>Enrile, Leopoldo L.</td>
<td>37</td>
</tr>
<tr>
<td>Enrione, Maria A.</td>
<td>42</td>
</tr>
<tr>
<td>Erben, Anne N.</td>
<td>42</td>
</tr>
<tr>
<td>Erdey, Richard A.</td>
<td>39</td>
</tr>
<tr>
<td>Evans, Thomas W.</td>
<td>52</td>
</tr>
<tr>
<td>Evans, Tina L.</td>
<td>46</td>
</tr>
<tr>
<td>Fahey, Brian</td>
<td>37</td>
</tr>
<tr>
<td>Fahey, Patrick J.</td>
<td>24,28</td>
</tr>
<tr>
<td>Fahig, Stephen A.</td>
<td>33</td>
</tr>
<tr>
<td>Falkenheim, Michael E.</td>
<td>33</td>
</tr>
<tr>
<td>Falkenheim, Sandra K.</td>
<td>28</td>
</tr>
<tr>
<td>Falko, James M.</td>
<td>31</td>
</tr>
<tr>
<td>Fallon, Timothy J.</td>
<td>392</td>
</tr>
<tr>
<td>Farber, Sanders M.</td>
<td>38</td>
</tr>
<tr>
<td>Farhat, Assam Z.</td>
<td>30</td>
</tr>
<tr>
<td>Farina, Ralph A.</td>
<td>28</td>
</tr>
<tr>
<td>Farringer, Bruce E.</td>
<td>38</td>
</tr>
<tr>
<td>Fass, Robert J.</td>
<td>35</td>
</tr>
<tr>
<td>Fayyad, John A.</td>
<td>46</td>
</tr>
<tr>
<td>Feinberg, Stephen E.</td>
<td>52</td>
</tr>
<tr>
<td>Ferland, Gary J.</td>
<td>148</td>
</tr>
<tr>
<td>Fetko, Mark</td>
<td>28</td>
</tr>
<tr>
<td>Flahuta, Joseph F.</td>
<td>42</td>
</tr>
<tr>
<td>Finn, James W.</td>
<td>31</td>
</tr>
<tr>
<td>Finneran, Mark T.</td>
<td>49</td>
</tr>
<tr>
<td>Fisher, John A.</td>
<td>39</td>
</tr>
<tr>
<td>Fishman, Deborah R.</td>
<td>39</td>
</tr>
<tr>
<td>Fitz, William R.</td>
<td>44</td>
</tr>
<tr>
<td>Fleisman, Bruce L.</td>
<td>30</td>
</tr>
<tr>
<td>Fleming, Christopher M.</td>
<td>38</td>
</tr>
<tr>
<td>Fieser, Carl R.</td>
<td>51</td>
</tr>
<tr>
<td>Flint, Alan J.</td>
<td>42</td>
</tr>
<tr>
<td>Floyd, Gary L.</td>
<td>302</td>
</tr>
<tr>
<td>Fontana, Mary E.</td>
<td>30</td>
</tr>
<tr>
<td>Forsthoefel, Kevin F.</td>
<td>41</td>
</tr>
<tr>
<td>Forsythe, Robert C.</td>
<td>566</td>
</tr>
<tr>
<td>Foster, Sara Ann</td>
<td>151</td>
</tr>
<tr>
<td>Fox, Barry</td>
<td>35</td>
</tr>
<tr>
<td>Foy, James E.</td>
<td>41</td>
</tr>
<tr>
<td>Frakes, Rebecca L.</td>
<td>33</td>
</tr>
</tbody>
</table>
Gabbe, Steven G. ........................................ 37
Gabriel, Paul W. ........................................ 44,45
Geaume, John V. .......................................... 32,44
Gahbauer, Reinhard A. ................................. 48
Gahman, Frank ........................................... 28
Games, Richard A. ...................................... 34
Gandhi, Adithya K ....................................... 33
Garcia, Michael J. ........................................ 29
Gardner, Edmond A. ..................................... 31
Garrison, Dan D. .......................................... 394
Garton, Patricia N ....................................... 42
Garvin, J. Charles ........................................ 38
Gayman, John V. .......................................... 27
Gbur, Charles J. ........................................... 33
Gebhart, Don E. ........................................... 40
Gemma, Steven M. ........................................ 46
George, David S. ......................................... 39
George, Jack M. ......................................... 31
Gerace, Ann ................................................. 38
Geron, Michael ........................................... 28
Getschman, Sarah J. ..................................... 42
Glazakopoulos, George J. ............................ 35
Glennin, A. James ....................................... 150
Gieszl, John N. ............................................ 39
Gilbert, E. Reid ........................................... 25
Gillespie, James R. ....................................... 32
Glancy, Donald R. ........................................ 506
Godwin, Douglas A. ..................................... 33
Goldberg, Donald ......................................... 46
Goldberg, Robert F. ...................................... 31
Goldman, Ernesto ......................................... 27
Good, Arnold P. .......................................... 30
Grabner, Harry L. ........................................ 30
Graven, Nadine E. ....................................... 38
Greco, John C. ............................................ 48
Greco, Michael A. ....................................... 30
Green, Cheryl A. ......................................... 40
Green, John H. ............................................ 30
Green, Thomas D. ........................................ 41
Gregory, James S. ........................................ 48
Gretchen, Peggy A. ....................................... 38
Griffith, Robert F. ....................................... 45
Griffith, Stephen R. ..................................... 40
Grierson, Roland C. ..................................... 28
Grilley, Susan E. ......................................... 29
Groden, David L. ........................................ 30
Grout, William E. ........................................ 40
Growick, Bruce S. ....................................... 381
Guettin, Michael G. ..................................... 33
Guynula, Lisa A. ........................................... 42
Gupta, Bhagwanidas .................................... 27
Gupta, Mohinder K. ..................................... 38
Guse, Thomas R. .......................................... 49
Gustafson, Michael L. ................................... 49
Guthrie, Julie A. .......................................... 46
Guthrie, Robert M. ........................................ 28
Guy, Jerry T. .............................................. 32
Gwinn, Michael D. ........................................ 44

H

Haan, Constance K. ....................................... 51
Haas, Garrie J ............................................. 30
Hackett, Kevin J .......................................... 37
Hackett, Craig A. ........................................ 48
Hadaway, Catherine A. .................................. 46
Haddock, David G. ....................................... 44
Hadiprono, Fabian ........................................ 26
Hagaman, David D ........................................ 33
Hagaman, Martha H. ..................................... 33
Haldar, Said N .............................................. 46
Halim-Armanios, Mona Y ................................ 27
Hall, William L ............................................ 44
Hamill, John M. ........................................... 46
Hamilton, James F. ....................................... 31
Hammond, Phyllis M. ..................................... 40
Hamoudi, Ala B. .......................................... 40
Hamoudi, Ayse C. ........................................ 40
Handler, Eric G. .......................................... 566
Hanninger, Glen J ......................................... 37
Hanyak, John P ............................................. 32
Harnish, Margaret S. ..................................... 37
Harlington, Beverly M .................................... 38
Harris, Betty C ............................................. 150
Harris, Donald ........................................... 24
Harris, Randall E ........................................... 381
Harris, Randall J ........................................... 33
Harrison, Rodney J ....................................... 506
Harvey, Vivian B .......................................... 149
Havener, William H ....................................... 38
Hayes, Rosalind A ........................................ 38
Hebert, Lee ............................................... 36
Heck, Robert W ............................................ 45
Hedges, Charles R ........................................ 29
Hedrick, Sterling W ..................................... 31,36
Heesacker, Martin ....................................... 304
Heinmiller, Daniel J ..................................... 41
Heileman, Mary A ......................................... 30
<table>
<thead>
<tr>
<th>Name</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavalle, Gregory J</td>
<td>382</td>
</tr>
<tr>
<td>Lauro, Gregory R</td>
<td>50</td>
</tr>
<tr>
<td>Lauer, Robert E</td>
<td>33</td>
</tr>
<tr>
<td>Kim, Doug Shi</td>
<td>29</td>
</tr>
<tr>
<td>Kim, John S</td>
<td>33</td>
</tr>
<tr>
<td>Kim, Moon H</td>
<td>37</td>
</tr>
<tr>
<td>Kim, Young H</td>
<td>28</td>
</tr>
<tr>
<td>Kindt, Gary C</td>
<td>36</td>
</tr>
<tr>
<td>Kirkpatrick, Robert B</td>
<td>32</td>
</tr>
<tr>
<td>Kirschnert, Stephen D</td>
<td>30</td>
</tr>
<tr>
<td>Kissel, John T</td>
<td>37</td>
</tr>
<tr>
<td>Kitchen, Calvin B</td>
<td>38</td>
</tr>
<tr>
<td>Klap, John A</td>
<td>566</td>
</tr>
<tr>
<td>Klase, Andrew P</td>
<td>30</td>
</tr>
<tr>
<td>Klejka, James P</td>
<td>33</td>
</tr>
<tr>
<td>Klinger, Robert J</td>
<td>42</td>
</tr>
<tr>
<td>Klump, Richard</td>
<td>31</td>
</tr>
<tr>
<td>Knox, David W</td>
<td>31</td>
</tr>
<tr>
<td>Kobe, Margaret F</td>
<td>35</td>
</tr>
<tr>
<td>Kogan, Michael G</td>
<td>49</td>
</tr>
<tr>
<td>Kolke, Vincent M</td>
<td>29</td>
</tr>
<tr>
<td>Kolzuml, Hisako</td>
<td>47</td>
</tr>
<tr>
<td>Kolattukudy, Marie M</td>
<td>27</td>
</tr>
<tr>
<td>Kolter, Susan L</td>
<td>35</td>
</tr>
<tr>
<td>Kolbush, Albert J, Jr</td>
<td>30</td>
</tr>
<tr>
<td>Kornanik, Carmela J</td>
<td>46</td>
</tr>
<tr>
<td>Koval, Ann R</td>
<td>33</td>
</tr>
<tr>
<td>Kovachln, John P</td>
<td>42</td>
</tr>
<tr>
<td>Kramer, John G</td>
<td>200</td>
</tr>
<tr>
<td>Kraut, Eric H</td>
<td>35</td>
</tr>
<tr>
<td>Kreger, Cynthia G</td>
<td>32</td>
</tr>
<tr>
<td>Krupko, John B</td>
<td>31</td>
</tr>
<tr>
<td>Kubayanda, Josephat B</td>
<td>23</td>
</tr>
<tr>
<td>Kuhls, Joseph J</td>
<td>38</td>
</tr>
<tr>
<td>Kulow, Keith R</td>
<td>42</td>
</tr>
<tr>
<td>Kunesh, Michael T</td>
<td>39</td>
</tr>
<tr>
<td>Kunin, Calvin M</td>
<td>32</td>
</tr>
<tr>
<td>Kuzma, Mary K</td>
<td>382</td>
</tr>
<tr>
<td>Laxon, Leah C</td>
<td>39</td>
</tr>
<tr>
<td>Leard, Rita A</td>
<td>38</td>
</tr>
<tr>
<td>Lee, Lorri A</td>
<td>49</td>
</tr>
<tr>
<td>Lee, Young-Mee</td>
<td>45</td>
</tr>
<tr>
<td>Lefkovitz, Jeffrey A</td>
<td>32, 33</td>
</tr>
<tr>
<td>Lefkovitz, Michael S</td>
<td>50</td>
</tr>
<tr>
<td>Leler, Carl V</td>
<td>30</td>
</tr>
<tr>
<td>LeMay, Diane M</td>
<td>42</td>
</tr>
<tr>
<td>Lembach, Richard G</td>
<td>39</td>
</tr>
<tr>
<td>Lembach, Robert E</td>
<td>38</td>
</tr>
<tr>
<td>Leppink, Douglas M</td>
<td>49</td>
</tr>
<tr>
<td>Leslie, Andrew C</td>
<td>42</td>
</tr>
<tr>
<td>Letson, Alan D</td>
<td>39</td>
</tr>
<tr>
<td>Lettvin, Charles L</td>
<td>50</td>
</tr>
<tr>
<td>Lettvin, Daniel S</td>
<td>46</td>
</tr>
<tr>
<td>Levin, Douglas M</td>
<td>32</td>
</tr>
<tr>
<td>Levitin, Milton</td>
<td>42</td>
</tr>
<tr>
<td>Levitt, Jodi K</td>
<td>49</td>
</tr>
<tr>
<td>Levy, Alan B</td>
<td>46</td>
</tr>
<tr>
<td>Levy, Sue J</td>
<td>47</td>
</tr>
<tr>
<td>Lewis, David K, Il</td>
<td>45</td>
</tr>
<tr>
<td>Lewis, James W</td>
<td>36</td>
</tr>
<tr>
<td>Lewis, Richard P</td>
<td>30</td>
</tr>
<tr>
<td>Li, Lawrence K</td>
<td>50</td>
</tr>
<tr>
<td>Lichtblau, Steven H</td>
<td>32</td>
</tr>
<tr>
<td>Lin, Young C</td>
<td>303</td>
</tr>
<tr>
<td>Lindner, Steven E</td>
<td>42</td>
</tr>
<tr>
<td>Lindstrom, Mark</td>
<td>29</td>
</tr>
<tr>
<td>Lingam, Rao P</td>
<td>27</td>
</tr>
<tr>
<td>Liss, Leopold</td>
<td>40</td>
</tr>
<tr>
<td>Little, Charles M</td>
<td>45</td>
</tr>
<tr>
<td>Littleton, Anne D</td>
<td>42</td>
</tr>
<tr>
<td>Livingston, Kimberly</td>
<td>49</td>
</tr>
<tr>
<td>Lo, Warren D</td>
<td>42</td>
</tr>
<tr>
<td>Loetscher, Christian A</td>
<td>52</td>
</tr>
<tr>
<td>Lomano, Jack N</td>
<td>37</td>
</tr>
<tr>
<td>Lombardo, John A</td>
<td>581</td>
</tr>
<tr>
<td>Long, Roland E</td>
<td>31</td>
</tr>
<tr>
<td>Long, William W</td>
<td>42</td>
</tr>
<tr>
<td>Lopez, Luis A</td>
<td>27</td>
</tr>
<tr>
<td>Lothes, Eric W</td>
<td>39</td>
</tr>
<tr>
<td>Love, Charles L</td>
<td>30</td>
</tr>
<tr>
<td>Lowery, Howard W</td>
<td>40</td>
</tr>
<tr>
<td>Lubbers, Judith R</td>
<td>382</td>
</tr>
<tr>
<td>Lubbow, Martin</td>
<td>39</td>
</tr>
<tr>
<td>Lucas, Joel G</td>
<td>40</td>
</tr>
<tr>
<td>Lutes, Richard A</td>
<td>29</td>
</tr>
<tr>
<td>Lutmer, William J</td>
<td>30</td>
</tr>
<tr>
<td>Lutz, Warner B</td>
<td>566</td>
</tr>
<tr>
<td>Luu, Tuan A</td>
<td>45</td>
</tr>
<tr>
<td>Lynn, Robert J</td>
<td>304</td>
</tr>
<tr>
<td>MacDougall, James B</td>
<td>50</td>
</tr>
<tr>
<td>MacLaurin, John P</td>
<td>36</td>
</tr>
<tr>
<td>MacLean, William C</td>
<td>42</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>---------------------</td>
<td>------</td>
</tr>
<tr>
<td>Sacolick, Alan R.</td>
<td>38</td>
</tr>
<tr>
<td>Sage, Harry M., Jr.</td>
<td>52</td>
</tr>
<tr>
<td>Sagone, Arthur L., Jr.</td>
<td>35</td>
</tr>
<tr>
<td>Sahenk, Zafife</td>
<td>37</td>
</tr>
<tr>
<td>Samani, Daniel J.</td>
<td>49</td>
</tr>
<tr>
<td>Samoil, Daniela</td>
<td>34</td>
</tr>
<tr>
<td>Sanchez, Laura E.</td>
<td>47</td>
</tr>
<tr>
<td>Santiago, Robert</td>
<td>382</td>
</tr>
<tr>
<td>Saunders, William H.</td>
<td>40</td>
</tr>
<tr>
<td>Sawaya, George A.</td>
<td>38</td>
</tr>
<tr>
<td>Scalzone, John M.</td>
<td>38</td>
</tr>
<tr>
<td>Scarsbrook, Dwight A.</td>
<td>31</td>
</tr>
<tr>
<td>Schaal, Stephen F.</td>
<td>30</td>
</tr>
<tr>
<td>Schaeffer, Karl I.</td>
<td>38</td>
</tr>
<tr>
<td>Schantz, Roger M.</td>
<td>28</td>
</tr>
<tr>
<td>Scharf, William R.</td>
<td>49</td>
</tr>
<tr>
<td>Schaut, David J.</td>
<td>28</td>
</tr>
<tr>
<td>Scheetz, Richard E., Jr.</td>
<td>52</td>
</tr>
<tr>
<td>Schmidt, Grant E.</td>
<td>37</td>
</tr>
<tr>
<td>Schmidt, Helmut</td>
<td>46</td>
</tr>
<tr>
<td>Schroeder, Kathleen L.</td>
<td>51</td>
</tr>
<tr>
<td>Schropp, Kurt P.</td>
<td>50</td>
</tr>
<tr>
<td>Schultz, Dana J.</td>
<td>382</td>
</tr>
<tr>
<td>Schuster, Andreas W.</td>
<td>34</td>
</tr>
<tr>
<td>Schwarzkopf, Steven B.</td>
<td>47</td>
</tr>
<tr>
<td>Sedmak, Daniel D.</td>
<td>40</td>
</tr>
<tr>
<td>Sedmak, Primrose A.</td>
<td>34</td>
</tr>
<tr>
<td>Segaleon, Joseph E.</td>
<td>43</td>
</tr>
<tr>
<td>Setz, Curtis M.</td>
<td>40</td>
</tr>
<tr>
<td>Sellers, Jeffrey D.</td>
<td>28</td>
</tr>
<tr>
<td>Senhueser, Donald A.</td>
<td>40</td>
</tr>
<tr>
<td>Severyn, Steven A.</td>
<td>28</td>
</tr>
<tr>
<td>Sferra, Thomas J.</td>
<td>43</td>
</tr>
<tr>
<td>Shade, William A.</td>
<td>34</td>
</tr>
<tr>
<td>Shamley, Kirk T.</td>
<td>38</td>
</tr>
<tr>
<td>Sharma, Hari M.</td>
<td>41</td>
</tr>
<tr>
<td>Sheets, Eileen H.</td>
<td>43</td>
</tr>
<tr>
<td>Shepard, Kirk V.</td>
<td>382</td>
</tr>
<tr>
<td>Shepherd, Larry M.</td>
<td>42</td>
</tr>
<tr>
<td>Sheridan, John F.</td>
<td>26</td>
</tr>
<tr>
<td>Sherman, Roger H.</td>
<td>39</td>
</tr>
<tr>
<td>Shibley, Kirk A.</td>
<td>38</td>
</tr>
<tr>
<td>Shipman, Morgan E.</td>
<td>148</td>
</tr>
<tr>
<td>Shollenberger, Lee A.</td>
<td>43</td>
</tr>
<tr>
<td>Shultz, John P.</td>
<td>42</td>
</tr>
<tr>
<td>Shuman, Amy E.</td>
<td>24</td>
</tr>
<tr>
<td>Shumate, Alex</td>
<td>142,155,385,558</td>
</tr>
<tr>
<td>Shy, Kathy E.</td>
<td>46</td>
</tr>
<tr>
<td>Sibley, Lucy R.</td>
<td>148</td>
</tr>
<tr>
<td>Sickles, Brent</td>
<td>28</td>
</tr>
<tr>
<td>Siegle, Ronald J.</td>
<td>40</td>
</tr>
<tr>
<td>Sifford-Wilson, Sharon M.</td>
<td>34</td>
</tr>
<tr>
<td>Sinnathamby, Sukirtharan</td>
<td>34</td>
</tr>
<tr>
<td>Slivka, Andrew P.</td>
<td>37</td>
</tr>
<tr>
<td>Sloan, Howard R.</td>
<td>41</td>
</tr>
<tr>
<td>Smeak, Daniel D.</td>
<td>27</td>
</tr>
<tr>
<td>Smith, Carolyn M.</td>
<td>34</td>
</tr>
<tr>
<td>Smith, Dean A.</td>
<td>43</td>
</tr>
<tr>
<td>Smith, Jack W., Jr.</td>
<td>41</td>
</tr>
<tr>
<td>Smith, Keith R.</td>
<td>45</td>
</tr>
<tr>
<td>Smith, Lester F.</td>
<td>566</td>
</tr>
<tr>
<td>Smith, Neal A.</td>
<td>384</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Smith, Roger S.</td>
<td>29</td>
</tr>
<tr>
<td>Smith, Townsend, III</td>
<td>28</td>
</tr>
<tr>
<td>Smyke, Norman A.</td>
<td>34</td>
</tr>
<tr>
<td>Snyder, Catherine A.</td>
<td>43</td>
</tr>
<tr>
<td>Sobeci, Luette M.</td>
<td>34</td>
</tr>
<tr>
<td>Sod, Anthony N.</td>
<td>48</td>
</tr>
<tr>
<td>Sommer, Annemarie</td>
<td>42</td>
</tr>
<tr>
<td>Sonnek, Jirí D.</td>
<td>38</td>
</tr>
<tr>
<td>Southard, Richard N.</td>
<td>43</td>
</tr>
<tr>
<td>Spafford, John B.</td>
<td>28</td>
</tr>
<tr>
<td>Svirbely, M.</td>
<td>48</td>
</tr>
<tr>
<td>Swenson, Richard P.</td>
<td>25</td>
</tr>
<tr>
<td>Sundaralingam, Muttalaya</td>
<td>565</td>
</tr>
<tr>
<td>Swan, Randall A.</td>
<td>29</td>
</tr>
<tr>
<td>Swan, Joseph F.</td>
<td>27</td>
</tr>
<tr>
<td>Swart, Gary L.</td>
<td>45</td>
</tr>
<tr>
<td>Sweeney, Thomas L.</td>
<td>147</td>
</tr>
<tr>
<td>Swenson, Richard P.</td>
<td>25</td>
</tr>
<tr>
<td>Swindells, Susan</td>
<td>33</td>
</tr>
<tr>
<td>Swofford, John B.</td>
<td>28</td>
</tr>
<tr>
<td>T</td>
<td></td>
</tr>
<tr>
<td>Tallo, Diane</td>
<td>32</td>
</tr>
<tr>
<td>Tamimi, Raed R.</td>
<td>47</td>
</tr>
<tr>
<td>Tauman, Yair</td>
<td>381</td>
</tr>
<tr>
<td>Taylor, Renee S.</td>
<td>382</td>
</tr>
<tr>
<td>Teaford, Hamilton J.</td>
<td>8, 11, 54, 60, 142, 295, 297, 376-379, 562, 568, 595</td>
</tr>
<tr>
<td>Teitelbaum, Daniel H.</td>
<td>49</td>
</tr>
<tr>
<td>Telhami, Shibley Z.</td>
<td>149, 304</td>
</tr>
<tr>
<td>Terry, Richard F.</td>
<td>30</td>
</tr>
<tr>
<td>Teteris, John N.</td>
<td>382</td>
</tr>
<tr>
<td>Teteris, Nicholas J.</td>
<td>37</td>
</tr>
<tr>
<td>Thell, Karl S.</td>
<td>41</td>
</tr>
<tr>
<td>Thomas, David B.</td>
<td>32</td>
</tr>
<tr>
<td>Thomas, Fred B.</td>
<td>32</td>
</tr>
<tr>
<td>Thomas, Marvin H.</td>
<td>36</td>
</tr>
<tr>
<td>Thompson, Craig R.</td>
<td>34</td>
</tr>
<tr>
<td>Thorne, Cynthia A.</td>
<td>566</td>
</tr>
<tr>
<td>Thornton, Donald E.</td>
<td>35</td>
</tr>
<tr>
<td>Tice, Frank D., IV.</td>
<td>30</td>
</tr>
<tr>
<td>Timson, Katrina M.</td>
<td>29</td>
</tr>
<tr>
<td>Tipton, David B.</td>
<td>44</td>
</tr>
<tr>
<td>Tolbert, Herman A.</td>
<td>47</td>
</tr>
<tr>
<td>Torres, Alex E.</td>
<td>29</td>
</tr>
<tr>
<td>Towning, Larry D.</td>
<td>52</td>
</tr>
<tr>
<td>Tracy, Stephen V.</td>
<td>25</td>
</tr>
<tr>
<td>Tricoci, Pierre L.</td>
<td>35</td>
</tr>
<tr>
<td>Trolano, Marlin F.</td>
<td>52</td>
</tr>
<tr>
<td>Trout, Ann M.</td>
<td>34</td>
</tr>
<tr>
<td>Tumuluru, Ramashwari V.</td>
<td>47</td>
</tr>
<tr>
<td>Turner, James C.</td>
<td>304</td>
</tr>
<tr>
<td>Tutschka, Peter J.</td>
<td>29</td>
</tr>
<tr>
<td>Tuttle, Steven E.</td>
<td>41</td>
</tr>
<tr>
<td>Tzagoumis, Manuel</td>
<td>31</td>
</tr>
<tr>
<td>U</td>
<td></td>
</tr>
<tr>
<td>Uhlenbrock, James M.</td>
<td>41</td>
</tr>
<tr>
<td>Ulrich, Jeffrey C.</td>
<td>49</td>
</tr>
<tr>
<td>Upp, James R.</td>
<td>50</td>
</tr>
<tr>
<td>Utrata, Peter J.</td>
<td>39</td>
</tr>
<tr>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Van Aman, Michael E.</td>
<td>47</td>
</tr>
<tr>
<td>Van Fossen, Albert W.</td>
<td>39</td>
</tr>
<tr>
<td>Van Fossen, Douglas B.</td>
<td>30</td>
</tr>
<tr>
<td>Van Pelt, Susan F.</td>
<td>304</td>
</tr>
<tr>
<td>VanLigten, Peter F.</td>
<td>44, 45</td>
</tr>
<tr>
<td>Vasko, Susan D.</td>
<td>49</td>
</tr>
<tr>
<td>Vasquez, E. Silvia</td>
<td>42</td>
</tr>
<tr>
<td>Veach, J. Douglas</td>
<td>38</td>
</tr>
<tr>
<td>Venesey, Deborah A.</td>
<td>44</td>
</tr>
<tr>
<td>Van Aman, Michael E.</td>
<td>47</td>
</tr>
<tr>
<td>Van Fossen, Albert W.</td>
<td>39</td>
</tr>
<tr>
<td>Van Fossen, Douglas B.</td>
<td>30</td>
</tr>
<tr>
<td>Van Pelt, Susan F.</td>
<td>304</td>
</tr>
<tr>
<td>VanLigten, Peter F.</td>
<td>44, 45</td>
</tr>
<tr>
<td>Vasko, Susan D.</td>
<td>49</td>
</tr>
<tr>
<td>Vasquez, E. Silvia</td>
<td>42</td>
</tr>
<tr>
<td>Veach, J. Douglas</td>
<td>38</td>
</tr>
<tr>
<td>Venesey, Deborah A.</td>
<td>44</td>
</tr>
</tbody>
</table>
GENERAL INDEX
1989-1990 Minutes
Volume 1

A

AARP Andrus Foundation, Washington, DC .......................................................... 177
Abbott Laboratories, Abbott Park, IL ................................................................. 580
Abolition/Creation of Department ................................................................ 17
Academic Affairs Committee Report ............................................................... 15,144,299,379,562
Adena Hall ....................................................................................................... 213,257
Adria Laboratories, Dublin, OH .................................................................... 175,176,405
Advanced Decision Systems, Mountain View, CA ....................................... 73,198,405
Advantage Electric, Columbus, OH ............................................................... 416,497
Agricultural Affairs Committee Report ....................................................... 61,160,237,
.................................................................................................................. 312,357,359,
.................................................................................................................. 394,481,569,617
Agricultural Technical Institute, Wooster, OH ........................................... 394,481
Agriculture, College of, Report on OARDC ............................................... 161,237
Agriculture, Department of, Washington, DC ........................................... 69
Agriculture, Department of, Animal and Plant Health Inspection
Service, Moorestown, NJ ........................................................................... 576
Agriculture, Department of, Economic Research Service,
Washington, DC ......................................................................................... 577
Agriculture, Department of, Forest Service, Fort Collins, CO .................... 321
Agriculture, Department of, Science and Education, Beltsville, MD .......... 403
Agriculture, Department of, Science and Education, Peoria, IL .............. 69,322,574
Agriculture, Department of, Science and Education, Washington, DC .... 65,66,68,189-
.................................................................................................................. 191,193,316-318,
.................................................................................................................. 320,399,401,403,574-576
Air Force, Department of the, Washington, DC ........................................... 64
Air Force, Department of the, Air Force Systems Command,
Bolling Air Force Base, DC ........................................................................... 67,68,192,400
Air Force, Department of the, Air Force Systems Command,
Wright-Patterson Air Force Base, OH ......................................................... 399,402
AITRC, Columbus, OH ................................................................................ 408
AITRC/CAS, Columbus, OH ....................................................................... 331
Alcoa Defense Systems, Inc., San Diego, CA ................................................ 175
Alcoholic and Substance Abuse Programs - Report on ......................... 568
America-Mideast Educational and Training Services, Inc.,
Washington, DC ............................................................................................ 405
American Agricultural Economics Association, Ames, IA .......................... 582
American Association of Oral and Maxillofacial Surgeons,
Rosemont, IL .................................................................................................. 329
American Cancer Society, Atlanta, GA ....................................................... 176,198,328,406
American Cancer Society, New York, NY .................................................... 328
American Cancer Society, Ohio Division, Inc., Dublin, OH ..................... 201,328,329,581
American Chemical Society, Washington, DC .......................................... 75,408
American Dental Hygienists' Association, Chicago, IL .............................. 75
American Electric Power Professorship of Power Systems
Engineering (The) ....................................................................................... 333
American Foundrymen's Society, Inc. (The), DesPlaines, IL .................... 180
American Heart Association, Dallas, TX .................................................... 74,198,407,580
American Heart Association, Ohio Affiliate, Inc., Columbus, OH............................... 177,178,200, 407,582
American Lung Association, New York, NY................................................................. 328,329
American Lung Association of Ohio, Columbus, OH.................................................. 200
American Nurses' Foundation, Inc., Kansas City, MO............................................... 582
American Seed Trade Association, Washington, DC................................................. 581
American Society of Mechanical Engineers, New York, NY..................................... 181
Annuity, Purchase of ................................................................................................. 136
Applied R & D, Olmsted Falls, OH.............................................................................. 405
Arco Chemical Company, Newton Square, PA......................................................... 333
Arizona Conservation Projects, Inc., Tucson, AZ....................................................... 74
Army, Department of the, Army Corps of Engineers, Champaign, IL........................ 170
Army, Department of the, Army Corps of Engineers, Hanover, NH.......................... 402
Army, Department of the, Army Corps of Engineers, Vicksburg, MS....................... 170,195,404
Army, Department of the, Army Materiel Command, Aberdeen Proving Ground, MD ......................................................................................................................... 170,401
Army, Department of the, Army Materiel Command, Fort Belvoir, VA................... 170
Army, Department of the, Army Research Office, Research Triangle Park, NC................ 578
Arthritis Foundation - Central Ohio Chapter, Columbus, OH....................................... 178
Arts Midwest, Minneapolis, MN .................................................................................. 179
ASME Gear Research Institute, Naperville, IL............................................................. 408
Assessing Extension Program Needs at the Local Level - Report on......................... 569,570
Association for Computers and the Humanities (The), Chicago, IL.......................... 177
Astra Alab AB, Sodertalje, Sweden.............................................................................. 580
Astronomical Instrumentation Facility........................................................................ 590,627
AT&T Bell Laboratories, Columbus, OH...................................................................... 405
AT&T Network Systems, Columbus, OH...................................................................... 583
Athletic Complex Playing Fields - North...................................................................... 208,241
Authorization for Designated Officials to Buy, Sell, Assign and Transfer Securities, To Deposit or Withdraw Funds from Bank .................................................. 12
Authorization for the Treasurer of the University to Serve as Trustee for Unitrusts and Annuity Trusts .......................................................................................... 13

B
B. S. Contractors, Inc., Columbus, OH........................................................................ 210,245
Baggs, Arthur E., Memorial Fund............................................................................... 206
Baker, Newton D., - Baker & Hostetler Chair In Law (The).......................................... 146
Baker, Newton D., - Baker & Hostetler Professorship in Law (The).............................. 146
Baker & Hostetler Law Library and Building Fund (The)............................................ 206
Baker Company, Inc. (The), Sanford, ME .................................................................. 406
Barnes, Robert A., Award for Exemplary Teaching (The).......................................... 186
Battelle Columbus Division, Columbus, OH.............................................................. 181
Battelle Memorial Institute, Columbus, OH................................................................. 74,177,178,581
BBN Advanced Computers, Cambridge, MA.............................................................. 181
Beatley, Charles, and Mary Alice Beatley Jordan.......................................................... 339,371
Bedding Plants Foundation, Inc., Lansing, MI............................................................. 201,330
Beecham Laboratories, Bristol, TN............................................................................ 327
Beechwood Medical Center, Columbus, OH............................................................... 214,259
Bergen Community College, Paramus, NJ................................................................. 330
Belflex Laboratories, Inc., Cedar Knolls, NJ............................................................... 71
Besselaar, G. H., Associates, Princeton, NJ................................................................. 174
Biotechnology Support Facility .................................................................................. 588,621
Boatmen's Trust Company......................................................................................... 14,560,607
Boeing Advanced Systems, Seattle, WA....................................................................... 77
Boeing Company, Seattle, WA.................................................................................... 76
Boeing Computer Services, Seattle, WA ................................................................. 175
Bollinger, Loren E., - Kenneth E. Kissell Endowment Fund (The) ....................... 584
Bond Sale, Update on the Next ........................................................................... 594
Borror, Donald J., Fund for Bioacoustical Studies .............................................. 410
Bostic, S. Maurice, and Birch S. M. Bostic Memorial Award Fund (The) .......... 186
Boston University, Boston, MA ........................................................................... 199
Botany and Zoology Building - Masonry Improvements .................................. 414,497
Botany and Zoology Greenhouse ....................................................................... 588,621
Bowling Green State University, Bowling Green, OH ......................................... 407
Brixton Development Corporation, Columbus, OH ............................................. 419,513
Brunswick Corporation, Marlton, VA .................................................................. 174,175,579
Buckeye Electric Co., Dayton, OH ....................................................................... 210,245
Buckeye Plan - Award of the Low Cost Medical Plan for the Faculty/Staff Benefit Program ................................................................. 343
Budget - 1989-90 Current Funds, Quarterly Report ......................................... 85-104,129,396,486
Budget Request for 1990-1992, Capital ............................................................... 2-6
Burroughs Wellcome Company, Research Triangle Park, NC ............................. 326,579
Butler County Children Services Board, Hamilton, OH ...................................... 327
C
C. W. Construction, Groveport, OH ..................................................................... 84
California Institute of Technology, Pasadena, CA .............................................. 328,406
California, University of, Livermore, CA ........................................................... 73,201,407
Calreco, Inc., Van Nuys, CA ................................................................................ 579
Cambridge Financial Group, Inc ........................................................................ 14,560,607
Campbell Hall Building Fund (The) ..................................................................... 184
Campbell Hall Laboratory Remodeling ................................................................. 210,245
Cancer Therapy and Research Foundation of South Texas, San Antonio, TX ... 75,179,201,330,582
Capital University, Columbus, OH .................................................................... 329
Career Development, Office of .......................................................................... 412,491
Caremark Plus, San Bernardino, CA ..................................................................... 198
Carmack Road, 2501 ............................................................................................ 144
Cashman, Sam, Family 4-H Endowment Fund (The) ........................................... 185
Central Ohio Diabetes Association, Columbus, OH ............................................ 201
CeramPhysics, Inc., Westerville, OH ..................................................................... 174,175,405
Chapman, James E. (Distinguished Service Award) ............................................. 299
Chicago Corporation (The) .................................................................................. 14,560,607
Children’s Hospital Research Foundation, Columbus, OH .................................. 408,581
Christoforidis, Dr. A. J., Lectureship in Radiology (The) ..................................... 78
Church and Dwight Company, Inc., Princeton, NJ .............................................. 175
CIBA-GEIGY Corporation, Greensboro, NC ......................................................... 72,197
Cincinnati, University of, Columbus, OH ............................................................ 76
Cragget Electric, Columbus, OH .......................................................................... 209,245
Cleveland Foundation (The), Cleveland, OH ....................................................... 328
Clinical Research International, Inc., Research Triangle Park, NC ................... 326
Cockins Hall - Masonry Improvements ................................................................ 414,497
Coffey Road Intramural Fields ............................................................................. 338,369
College Road Storm Sewer Extension ................................................................ 211,253
Colorado, University of, Boulder, CO ................................................................. 180
Columbus, City of, Department of Public Utilities, Columbus, OH .................... 77
Columbus Foundation (The), Columbus, OH ....................................................... 179
Columbus Health Department, Columbus, OH .................................................. 581
Columbus Southern Power Company ................................................................. 593,635
Columbus State Community College, Columbus, OH ......................................... 177
Columbus Zoo, Powell, OH ................................................................................... 583

xv
Commerce, Department of, National Institute of Standards and Technology, Gaithersburg, MD .......................................................... 321,401
Commerce, Department of, National Oceanic and Atmospheric Administration, Rockville, MD ......................................................... 323,397,574
Concrete Construction, Columbus, OH .................................................. 211,253
Consolidated Edison of New York, Peekskill, NY .................................. 583
Corpak, Inc., Wheeling, IL .......................................................................... 327
Corporation for Public Broadcasting, Washington, DC ......................... 581
Coulter, William B ....................................................................................... 215
Council on International Educational Exchange, New York, NY ............. 75
Counseling and Consultation Center - Report on the .................................. 53
Crossen, Dale E. and Lena K., Memorial Fund (The) .................................. 410
Culligan Fire, Cincinnati, OH ....................................................................... 592,631
Curriculum Reform - Report on .................................................................. 562

D

Davidson, H. Justin, Fellowship Fund (The) .............................................. 80
Decision Images, Inc., Princeton, NJ .......................................................... 406
Deems, Bart (Student) .................................................................................. 390
Defense, Department of, Defense Supply Service, Washington, DC ........ 577
Defense, Department of, Maryland Procurement Office, Fort George G. Meade, MD .............................................................. 66
Defense, Department of, National Security Agency, Fort George G. Meade, MD .............................................................. 403
Degrees and Certificates............................................................................... 22,380
Dentistry, College of - Report on the ......................................................... 554-559
Detroit Edison Company, Newport, MI ..................................................... 180
Development, Department of, Columbus, OH .......................................... 76
Dianon Systems, Inc., Stratford, CT ............................................................. 72
Dickey, Sarah Eliza and Martin Luther, Memorial Fund in Electrical Engineering (The) ............................................................. 77
Diebert, Steve (Student) ............................................................................... 306
Dining Commons Remodeling - Phase I, North Commons ..................... 81,119
Distinguished Service Awards .................................................................... 299
Dodd Hall HVAC System Modifications ................................................... 83
Dodd Hall Interface ..................................................................................... 83,121
Dublin Local Schools, Dublin, OH .............................................................. 329
Duff and Phelps Investment Management Company ............................... 14,560,607
Dugan and Meyers, Cincinnati, OH ........................................................... 209,245
Duke University, Durham, NC ................................................................. 73
Duphar, B.V., Weesp, Holland .................................................................... 326
duPont de Nemours, E. I., and Company, Inc., Newark, DE ...................... 73,176

E

11th Avenue, 141 West ............................................................................... 339,371
Early Retirement Incentive Program, PERS ............................................. 342
Early Retirement Incentive Program, STRS .............................................. 341
Easements ................................................................................................. 213,257, 593,695,637
Edison Materials Technology Center (The), Kettering, OH ................. 326
Edison Program, Columbus, OH ............................................................... 75,180
Edison Welding Institute, Columbus, OH ................................................ 77,202, 331-333,408
Education, Department of, Washington, DC ........................................ 320,397,574
Education, Department of, Office of Educational Research and Improvements, Washington, DC .......................................................... 168,318,401,577
Education, Department of, Office of Elementary and Secondary Education, Washington, DC .......................................................... 165
Education, Department of, Office of Postsecondary Education, Washington, DC .......................................................... 165,166, 169,316,399
Education, Department of, Office of Special Education and Rehabilitation Services, Chicago, IL .......................................................... 318
Education, Department of, Office of Special Education and Rehabilitation Services, Washington, DC .......................................................... 165-168, 188,398,575
EG & G Idaho, Inc., Idaho Falls, ID .......................................................... 73
Electric Power Research Institute, Palo Alto, CA .......................................................... 76
Elion, Gertrude B. (Honorary Degree) ............................................................................................................ 20
Emergency Medicine Foundation, Irving, TX .......................................................... 329
EMTEC, Kettering, OH ............................................................................................................ 583
Energy, Department of, Alken, SC ............................................................................................................ 195
Energy, Department of, Argonne, IL ............................................................................................................ 65-67,167,168, 315,316,400,401
Energy, Department of, Idaho Falls, ID ............................................................................................................ 387,398,402
Engineering Experiment Station ............................................................................................................ 75,180,202,331,408,583
Enrollment Report - Autumn Quarter 1989 ............................................................................................................ 374,425
Environmental Protection Agency, Chicago, IL ............................................................................................................ 320,322,577
Environmental Protection Agency, Washington, DC ............................................................................................................ 65,398
EPRI, Palo Alto, CA ............................................................................................................ 332
Ethicon, Inc., Somerville, NJ ............................................................................................................ 405
Evans, Bob, Farma Inc., Hospitality Research Fund ............................................................................................................ 205
Evans, Luke (Student) ............................................................................................................ 56,156,307,386
Expenses for Designated Administrative Officials - Report ............................................................................................................ 343
Expressions of Appreciation ............................................................................................................ 10,215

F

Faculty Club Improvements ............................................................................................................ 417,418,497
Farber Corporation, Columbus, OH ............................................................................................................ 210,245
Fidia, Abano Terme, Italy ............................................................................................................ 198
Firestone Tire and Rubber Company (The), Akron, OH ............................................................................................................ 175
Fiscal Affairs Committee Report ............................................................................................................ 61,161,239
Florida International University, Miami, FL ............................................................................................................ 581
Food Science and Nutrition, Department of ............................................................................................................ 17
Food Science and Technology, Department of ............................................................................................................ 17, 61
Ford Foundation, New York, NY ............................................................................................................ 329
Ford Motor Company, Dearborn, MI ............................................................................................................ 202
Ford Motor Company - EEOC Scholarship for Minorities and Women ............................................................................................................ 183
Fox, Robert K., Professorship in Chemistry Fund (The) ............................................................................................................ 207
Francis, Parker B., Foundation, Hanover, NH ............................................................................................................ 200
Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, OH ............................................................................................................ 176,330
Franklin Fire Sprinkler, Columbus, OH ............................................................................................................ 84
French and Italian, Department of ............................................................................................................ 17
Functional Development, Dublin, OH ............................................................................................................ 83
<table>
<thead>
<tr>
<th>G</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GAC International, Central Islip, NY</td>
<td>176</td>
</tr>
<tr>
<td>Gas Research Institute, Chicago, IL</td>
<td>76</td>
</tr>
<tr>
<td>General Biology Annex</td>
<td>145</td>
</tr>
<tr>
<td>General Dynamics, Fort Worth, TX</td>
<td>331</td>
</tr>
<tr>
<td>General Electric Company, Cincinnati, OH</td>
<td>181,325,331,408</td>
</tr>
<tr>
<td>General Electric Plastics, Southfield, MI</td>
<td>579</td>
</tr>
<tr>
<td>General Heating and Air Conditioning, Flatwoods, KY</td>
<td>417,497</td>
</tr>
<tr>
<td>General Maintenance, Columbus, OH</td>
<td>82</td>
</tr>
<tr>
<td>Georgia, University of, Athens, GA</td>
<td>407</td>
</tr>
<tr>
<td>Gerlach, John J., Chair Fund (The)</td>
<td>336</td>
</tr>
<tr>
<td>Gerlach, John J., Professorship Fund (The)</td>
<td>336</td>
</tr>
<tr>
<td>Getty Center for Education In the Arts, Los Angeles, CA</td>
<td>328</td>
</tr>
<tr>
<td>Goodrich, B. F., Troy, OH</td>
<td>180</td>
</tr>
<tr>
<td>Goodrich, B. F., Aerospace, Uniontown, OH</td>
<td>181</td>
</tr>
<tr>
<td>Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia</td>
<td>406,582</td>
</tr>
<tr>
<td>Great Lakes Commission, Ann Arbor, MI</td>
<td>179</td>
</tr>
<tr>
<td>Greater Columbus Arts Council, Columbus, OH</td>
<td>75</td>
</tr>
<tr>
<td>Gund, George, Foundation (The), Cleveland, OH</td>
<td>199</td>
</tr>
<tr>
<td>Guy, J. A., Dublin, OH</td>
<td>84</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hancock, John, Mutual Life Insurance Company</td>
<td>343</td>
</tr>
<tr>
<td>Harrison, Stanley E. (Honorary Degree)</td>
<td>21</td>
</tr>
<tr>
<td>Havener, William H., M.D., Chair In Ophthalmology Research Fund</td>
<td>587</td>
</tr>
<tr>
<td>Hayes, Wayne Woodrow 'Woody', Naval R.O.T.C. Leadership Award Fund (The)</td>
<td>79</td>
</tr>
<tr>
<td>Health and Human Services, Department of, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, MD</td>
<td>317,576</td>
</tr>
<tr>
<td>Health and Human Services, Department of, Bureau of Health Professions, Rockville, MD</td>
<td>169,171</td>
</tr>
<tr>
<td>Health and Human Services, Department of, Bureau of Maternal and Child Health and Resources Development, Rockville, MD</td>
<td>397</td>
</tr>
<tr>
<td>Health and Human Services, Department of, Centers for Disease Control, Atlanta, GA</td>
<td>165</td>
</tr>
<tr>
<td>Health and Human Services, Department of, Food and Drug Administration, Rockville, MD</td>
<td>317</td>
</tr>
<tr>
<td>Health and Human Services, Department of, National Cancer Institute, Bethesda, MD</td>
<td>64-69,165-171,188,191,195,316,320,400,574-577</td>
</tr>
<tr>
<td>Health and Human Services, Department of, National Center for Nursing Research, Bethesda, MD</td>
<td>167,194,319,403,574</td>
</tr>
<tr>
<td>Health and Human Services, Department of, National Eye Institute, Bethesda, MD</td>
<td>192,193,322,399,402,403,576,578</td>
</tr>
<tr>
<td>Health and Human Services, Department of, National Heart, Lung, and Blood Institute, Bethesda, MD</td>
<td>64,66,168,169,189-191,315-318,400,574</td>
</tr>
<tr>
<td>Health and Human Services, Department of, National Institute of Aging, Bethesda, MD</td>
<td>167,318</td>
</tr>
<tr>
<td>Health and Human Services, Department of, National Institute of Allergy and Infectious Diseases, Bethesda, MD</td>
<td>64,68,168,188,189,192,317,320,322,398,400,403,575-577</td>
</tr>
</tbody>
</table>
Health and Human Services, Department of, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, MD................................................................. 69,189,190,404
Health and Human Services, Department of, National Institute of Child Health and Human Development, Bethesda, MD............................................................. 66,189,190,317
Health and Human Services, Department of, National Institute of Dental Research, Bethesda, MD................................................................. 66,167,191,400,403,574,575
Health and Human Services, Department of, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD................................................................. 66,66,165,168,172,188,191,192,318
Health and Human Services, Department of, National Institute of Environmental Health Sciences, Bethesda, MD................................................................. 64
Health and Human Services, Department of, National Institute of Environmental Health Sciences, Research Triangle Park, NC................................................................. 166,323
Health and Human Services, Department of, National Institute of General Medical Sciences, Bethesda, MD................................................................. 64,70,165-167,169,188,191,192,315,316,321-323,403
Health and Human Services, Department of, National Institute of Health Clinical Center, Bethesda, MD................................................................. 70,172,190,195,323
Health and Human Services, Department of, National Institute of Mental Health, Rockville, MD................................................................. 170,188,191,315-317,319,321,397,398,576,577
Health and Human Services, Department of, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, MD................................................................. 166,189,190,194,315,398,317-319,321,322,403
Health and Human Services, Department of, National Institute on Deafness and Other Communicative Disorders, Bethesda, MD................................................................. 399
Health and Human Services, Department of, National Library of Medicine, Bethesda, MD ................................................................. 317,576
Health and Human Services, Department of, Office of Human Development Services, Administration for Children, Youth and Families, Chicago, IL................................................................. 402
Health and Human Services, Department of, Office of Human Development Services, Administration on Developmental Disabilities, Kansas City, MO................................................................. 397
Health and Human Services, Department of, Public Health Service, Health Resources and Services Administration, Rockville, MD ................................................................. 66,315
Healthcare Financial Management Association, Westchester, IL................................................................. 176
Heldt, Leona Rolffe and Ernest Michael, Memorial Scholarship Fund (The).......................................................................................................................... 586
Henry County 4-H Endowment Fund (The).......................................................................................................................... 184
High Street, 4808 North, Columbus, OH................................................................. 214,259
Highland Avenue, 1624-26, Columbus, OH................................................................. 419,513
Home Economics, College of.................................................................................. 16
Honda of America Manufacturing, Inc., Marysville, OH................................................................. 326
Hong Kong Government, Hong Kong ................................................................. 178
Honorary Degrees........................................................................................................ 20
Hospitality Management Research Fund (The).................................................................................. 205
Hospitals Board Committee Report ................................................................. 297,378
Hughes, Howard, Medical Institute, Rockville, MD ............................................. 198
Hughes Aircraft Corp., Malibu, CA ...................................................................... 583
Human Ecology, College of ............................................................................. 16

IBM, Endicott, NY ............................................................................................. 202
Imperial Chemical Industries PLC, London, England ............................................ 325
Indiana Michigan Power Company, Bridgman, MI .............................................. 581
Industrial Commission of Ohio (The), Columbus, OH ....................................... 331,421,515
Inland Fisher Guide Division, General Motors Corporation/United
Auto Workers/The Ohio State University, Columbus, OH .................................. 328
Interior, Department of the, Bureau of Mines, Washington, DC ......................... 189
Interior, Department of the, Fish and Wildlife Service,
Anchorage, AK ................................................................................................ 169
Interior, Department of the, Geological Survey, Reston, VA .............................. 166,194
Interior, Department of the, National Park Service, Washington, DC ............... 402
Interior, Department of the, National Park Service, Yellowstone
National Park, WY ........................................................................................... 322
International Adsorption Society, Inc., Columbus, OH ....................................... 583
International Affairs, Office of .......................................................................... 379
International Business Machines Corporation, San Jose, CA ............................ 327
International Business Machines Corporation, Yorktown
Heights, NY ..................................................................................................... 72
International Center for the Preservation of Wild Animals,
Columbus, OH ............................................................................................... 74
International Development Cooperation Agency, Agency for
International Development, Mbabane, Swaziland ........................................... 318
International Development Cooperation Agency, Agency for
International Development, Washington, DC .................................................. 315,397,398,401
International Life Sciences Institute, Washington, DC .................................... 199
Investment Advisors, Appointment of, and Reappointment of
Investment Advisors ....................................................................................... 14,559,607
Investments Committee Report ........................................................................ 12,143,217,229,238,
345,379,469,559,597

J

Janssen Research Foundation, Inc., Piscataway, NJ ............................................. 174
Johnson, R. W., Pharmaceutical Research Institute (The),
Spring House, PA .......................................................................................... 325
Johnson, Robert Wood, Foundation, Princeton, NJ .......................................... 328
Juvenile Diabetes Foundation International (The), New York, NY .................. 199,406

K

Keller, Helen, National Center for Deaf-Blind Youth and
Adults, Sands Point, NY ............................................................................. 580
Kenny Road, 2050, Columbus, OH ................................................................... 421,515
Kenny Road, 2623, Columbus, OH .................................................................. 593,635
Kent, Paul and Lucy Dale, Cancer Research Endowment Fund (The) ............. 202
Kentucky, Commonwealth of, Frankfort, KY ............................................... 330
Kentucky, University of, Lexington, KY ......................................................... 75
Klingenstein Fund, New York, NY .................................................................. 407
Labor, Department of, Bureau of Labor Statistics, Washington, DC ........................................... 64,574,576
Labor, Department of, Employment and Training Administration, Washington, DC .................................................. 171
Lazard, W. R., and Company .................................................................................................................. 14,560,607
Leases ........................................................................................................................................... 214,259
Lederle Laboratories, Pearl River, NY ............................................................................................. 72
Leonard, J., Camera Center for Industrial and Vocational Rehabilitation - Management of the .... 421,515
Lima Regional Campus - Reed Hall Parking Lot Addition ................................................................ 413,493
Lincoln Tower and Morrill Tower Residence Halls Upgrade Treatment - Phase I ..................... 589,625
Lockheed Aeronautical System Co., Burbank, CA .......................................................................... 76
Lockheed Engineering and Science Company, Houston, TX ....................................................... 174,198
Lockheed Missiles & Space Co., Sunnyvale, CA .............................................................................. 77,408

March of Dimes Birth Defects Foundation, Central Ohio Chapter, Columbus, OH ........................................... 74
March of Dimes Birth Defects Foundation, White Plains, NY ............................................................ 407
Martin Marietta Corporation, Oak Ridge, TN .................................................................................. 405
Masonry Improvements - Botany and Zoology Building ................................................................. 414,497
Masonry Improvements - Cockins Hall ........................................................................................... 414,497
Masonry Repairs - Bricker Hall ........................................................................................................ 82,121
Masonry Repairs - Pomerene Hall ..................................................................................................... 83,121
Massachusetts Institute of Technology - Lincoln Laboratory, Lexington, MA ...................................... 406
McClellan, Miles, Construction, Columbus, OH ............................................................................. 415,497
McDonald, Marshall, Scholarship Fund (The) .................................................................................. 203
McDonnell Douglas, St. Louis, MO .................................................................................................. 76
McDonnell Douglas Technologies, Inc., San Diego, CA ................................................................. 579
Medical College of Ohio, Toledo, OH .............................................................................................. 580
Meeder, R., and Associates, Inc., ..................................................................................................... 14,560,607
Meellor, Floyd B., Scholarship Fund (The) ....................................................................................... 203
Merk, Sharp, and Dohme Research Laboratories, West Point, PA .................................................... 197
Merk and Company, Rahway, NJ ..................................................................................................... 326
March Center .................................................................................................................................... 590,627
Metropolitan Life Foundation, New York, NY .................................................................................. 199
Meyer, E. J., & Sons, Ottawa, OH ................................................................................................... 413,493
Michigan State University, East Lansing, MI .................................................................................... 200,201
Midwest Universities Consortium for International Activities, Inc., Columbus, OH ....................... 179,327
Miller, Lewis E., and Dorothy Hermann Miller Research Fund (The) ............................................ 584
Mission Research Corporation, Santa Barbara, CA ........................................................................ 72,174,326
Mobil Research and Development Corporation, Paulsboro, NJ ..................................................... 197
Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I ..................... 589,625
Mortar Board Recognition .................................................................................................................. 145
Munster, Sigmund & Rita, and Family Athletic Endowment Fund (The) ...................................... 80
Muscular Dystrophy Association, New York, NY ............................................................................ 199,407
Muskingum County Board of Mental Retardation and Developmental Disabilities, Zanesville, OH .. 407
N

Naming of Buildings .................................................................................................................. 144,145
National Aeronautics and Space Administration, Washington, DC .................................. 165,171,194,321,577
National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA ................................................................. 167,169,399,403
National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD .................................................................................................................. 169,577
National Aeronautics and Space Administration, Langley Research Center, Hampton, VA .................................................................................................................. 69,193,397,400
National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH .................................................................................................................. 67,69,193,316, 320,321,399,575
National Alliance for Research on Schizophrenia and Depression, Chicago, IL .................................................................................................................. 177
National Association of Regulatory Utility Commissioners, Washington, DC .................................................................................................................. 406
National Council for Soviet and East European Research, Washington, DC .................................................................................................................. 199
National Foundation on the Arts and Humanities, National Endowment for the Arts, Washington, DC .................................................................................. 578
National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, DC .................................................................................. 400
National Geographic Society, Washington, DC ........................................................................ 408
National Institute for Dispute Resolution, Washington, DC .................................................................................................................. 201
National Kidney Foundation, Inc., New York, NY .................................................................. 74
National Multiple Sclerosis Society, New York, NY .................................................................. 580
National Science Foundation, Washington, DC ........................................................................ 64,70,166-171,188-194,316-322,398-402,575
Navistar International Transportation Corporation, Columbus, OH .................................................................................................................. 176
Navy, Department of the, Naval Material Command, China Lake, CA .................................................................................................................. 169,321
Navy, Department of the, Office of Naval Research, Arlington, VA .................................................................................................................. 194,402
Navy, Department of the, Office of Naval Research, Washington, DC .................................................................................................................. 67,171,319
NCR Corporation, Cambridge, OH .......................................................................................... 333
Nebraska, University of, Lincoln, NE ...................................................................................... 329
Nebraska Department of Education, Lincoln, NE ...................................................................... 330
Nell Avenue, 1501, Renovation ................................................................................................ 590,627
Neoprobe Corporation, Columbus, OH ..................................................................................... 326
Neuberger & Berman Mutual Funds ....................................................................................... 14,560,807
Newco Electric, Columbus, OH ............................................................................................... 418,497
Nicholas-Applegate Capital Management ............................................................................. 15,560,807
Nippon Yakin Kogyo Co., Ltd., Tokyo, Japan .......................................................................... 181
Non-Mandatory Transfer from Current Funds, Fiscal Year 1988-89 ..................................... 422,521
North Atlantic Treaty Organization, Brussels, Belgium ............................................................ 408
Norwich-Eaton Pharmaceuticals, Inc., Norwich, NY ................................................................. 197

O

Ohio - State of, Air Quality Development Authority, Columbus, OH ................................. 71
Ohio - State of, Board of Regents, Columbus, OH ................................................................ 578
Ohio - State of, Department of Agriculture, Columbus, OH .................................................. 71
Ohio - State of, Department of Commerce, Columbus, OH .................................................... 71,578,579
Ohio - State of, Department of Development, Columbus, OH .............................................. 70,71,173, 196,323,324
Ohio - State of, Department of Education, Columbus, OH ..................................................... 70,172,173,195, 196,324,325,404,579
Ohio - State of, Department of Health, Columbus, OH ............................................. 70,172,173,324,404,578
Ohio - State of, Department of Human Services, Columbus, OH.......................... 196,197,325
Ohio - State of, Department of Mental Health, Columbus, OH.............................. 71,173,196,324,404
Ohio - State of, Department of Mental Retardation and Developmental Disabilities, Columbus, OH .............................................................. 70,71
Ohio - State of, Department of Natural Resources, Columbus, OH......................... 172,195,196
Ohio - State of, Ohio Arts Council, Columbus, OH .................................................. 324,325
Ohio - State of, Ohio Humanities Council, Columbus, OH ...................................... 173
Ohio - State of, Ohio Library Board, Columbus, OH ................................................ 173
Ohio Cancer Research Associates, Columbus, OH ................................................... 329
Ohio Coal Development Office (The), Columbus, OH ............................................. 180
Ohio Cooperative Extension - Report on Assessing Extension Program Needs at the Local Level ............................................................. 569-570
Ohio Department of Development (The), Columbus, OH ........................................ 180
Ohio Dominican College, Columbus, OH ................................................................. 329
Ohio Eminent Scholar in High-Temperature Structural Materials ............................ 181
Ohio Eminent Scholar in Macromolecular Structure Determination ........................ 182
Ohio Eminent Scholar in Protein Engineering ........................................................... 182
Ohio Nurserymen's Association, Inc., Columbus, OH .............................................. 330
Ohio Poultry Association Columbus, OH ................................................................. 179
Ohio Power Company ............................................................................................... 213,257
Ohio River Basin Consortium, Columbus, OH ......................................................... 179
Ohio Stadium Turf Replacement .............................................................................. 208,241
Ohio State University Campaign (The) ................................................................ 312,363
Ohio State University Endowment Funds and University Foundation Endowment Funds - Report (The) ................................................................. 143,229
Ohio State University Hospitals Board Committee Report (The) ............................ 11,142
Ohio State University Mortar Board Alumni Endowment Fund (The) ..................... 585
Ohio State University Research Foundation Report (The) ....................................... 9,296
Ohio University, Athens, OH .................................................................................... 179,328,407
Ohio University, West Orange, NJ .......................................................................... 176
Ogden, Inc., West Orange, NJ .................................................................................... 173
Otterbein College, Westerville, OH .......................................................................... 330
Overlook Farm, Fairfield County, OH ....................................................................... 593,637
Owens-Illinois, Columbus, OH .................................................................................. 174

Pathology Photo Studio and Microscopy Lab - Stirling Loving Hall ....................... 415,497
Pennsylvania, University of, Philadelphia, PA ......................................................... 176
Pennsylvania Department of Education, Harrisburg, PA .......................................... 580
Petroleum Research Fund (The), Washington, DC .................................................. 199,200,407
Pitzer, Inc., Groton, CT ......................................................................................... 174,175,579
Pharmakinetcs Laboratories, Inc., Baltimore, MD ................................................... 197
Phillips, H. K., Columbus, OH ................................................................................. 83,414,497
Piketon Agricultural Research and Extension Center ............................................. 312,359,416,417,497
Plant Indebtedness, Ohio State University (The) ..................................................... 161,239
Pooled Income Trust Funds I, II, III and IV, Appointment of Trustees, For ............. 13
Postle, Harry H. and Margaret B., Scholarship Fund ............................................... 411
Pressey Hall - Office of Career Development ......................................................... 412,491
Procter and Gamble Company (The), Cincinnati, OH .......................................... 73,197,326
Property, Purchase of Real ...................................................................................... 339,371,419,513
Puerto Rico, University of, Rio Piedras, Puerto Rico .............................................. 74
R

Radico, Inc., Columbus, OH ................................................................. 418,497
Reco Electric, Gahanna, OH .............................................................. 417,497
Reed Hall Parking Lot Addition - Lima Regional Campus .............. 413,493
Renaming of College ......................................................................... 16
Research Foundation Report ................................................................ 9,296
Resource International, Incorporated, Columbus, OH ...................... 404
Retirement Credit, Purchase of ......................................................... 137
Riverside Research Institute, New York, NY ................................... 198
Rochester, University of, Rochester, NY ........................................ 330
Rockefeller Foundation, New York, NY ........................................... 73
Romance Languages and Literatures, Department of ...................... 17
Rosemount, Inc., Burnsville, MN ....................................................... 327,404
Ross Laboratories, Columbus, OH .................................................... 327,408
Rothenbuhler, Walter C., Honey Bee Research Laboratory ............. 144
Royal Electric, Columbus, OH ......................................................... 84
Rules of the University Faculty ....................................................... 18-20
Russagl, Chhotey Lal and Mohra Devi, Memorial Lectureship Fund (The) 205
Rutgers University, Piscataway, NJ .................................................. 581

S

75th Anniversary Scholarship Fund .................................................. 185
Sandia Corporation, Albuquerque, NM ............................................. 72
Sandoz, Inc., East Hanover, NJ ......................................................... 71,325,327,405
Sandoz Pharmaceuticals Corporation Endowment Fund for Clinical Research (The) 334
Santa Fe Pacific Mining, Inc., Albuquerque, NM ............................. 73
Sargents Construction, Waverly, OH .............................................. 416,497
Sears Manufacturing Company, Davenport, IA ............................... 405
Segall, Sam, Memorial Library Fund (The) ........................................ 334
Segall, Sam, Memorial Scholarship Fund (The) ............................... 335
Selective Admissions - Report on .................................................... 562
Septech, Wakefield, RI ................................................................. 198
Shepherd, J. M., Scholarship Fund (The) .......................................... 586
Shepherd, John M., Athletic Scholarship Fund (The) ....................... 78
Shepherd Scholarship Award (The) ..................................................... 586
Siebel Capital Management, Inc. ....................................................... 15,561,607
Site Renovation and Bridge and Street Improvements, Phase I ........... 209,245
Sloan, Alfred P., Foundation, New York, NY .................................. 74
Sloan, Stephen B. (Student) ............................................................. 55,155,569
South Central Power Company ....................................................... 593,837
Southeastern Poultry and Egg Association, Decatur, GA ............... 590,582
Spanish and Portuguese, Department of ................................. 17
Speer, Margaret Carter, and William Raymond Speer Endowment Fund (The) 79
Sphinx Endowment Fund (The) ....................................................... 337
Sport Fishing Institute, Washington, DC ........................................ 179
Springfield-Clark Joint Vocational School Board of Education, Springfield, OH 582
Starling Loving Hall - Pathology Photo Studio and Microscopy Lab .... 415,416,497
Steffel, Dr. and Mrs. Victor L., Memorial Fund (The) .................... 409
Stevens Painlton Corp., Hilliard, OH .............................................. 210,245
Stipends for Graduate Students, Proposal for ................................ 586
Stockmeister, A. J., Inc., Jackson, OH ............................................ 416,497
Strub, David L. (Student).......................................................... 57,156,309,569
Stuart Pharmaceuticals, Wilmington, DE .................................. 327
Student Affairs Committee Report ........................................... 53,155,306,385,568
Student Athletes, Academic Support Systems for ................... 385
STW Fixed Income Management, Inc. .................................... 15,561,607
Superconductive Components, Inc., Columbus, OH ............. 197,198

T

Teledyne Monarch Rubber Company, Hartville, OH .................. 180
Texas, University of, Dallas, TX .............................................. 580
Texas A & M University, College Station, TX ......................... 201
Textron Defense Systems, Wilmington, MA .......................... 72
Textron Lycoming, Stratford, CT ............................................. 76
Thal, Eugene, Scholarship Fund (The) .................................... 409
Transportation, Department of, National Highway Traffic Safety Administration, East Liberty, OH ..................... 322,577
Trisco Systems, Lima, OH .................................................... 415,497
Trott, Richard W. (Distinguished Service Award) .................... 300

U

United Nations, Geneva, Switzerland ..................................... 198
United States Golf Association, Far Hills, NJ ......................... 74
United States Institute of Peace, Washington, DC ................... 576
United States-Israel Binational Agricultural Research and Development Fund, Bet Dagan, Israel ......................... 406
Universal Energy Systems, Inc., Dayton, OH .......................... 175,405
University Endowment Funds and University Foundation Endowment Funds- Report ........................................... 143,229
University Endowment Fund Property - Report .................... 15,117
University Hospitals Board Committee Report ...................... 11,142
University Hospitals Board Report ....................................... 290-296
University Libraries - Report .............................................. 379,447
University's Investment Portfolio - Report .............................. 15,105,143,217, 298,345,378,469

V

Veterinary Hospital - Sprinkler for Large Animal Wards ........... 592,631
Virginia Polytechnic Institute, Blacksburg, VA ....................... 530
Vistakon, Inc., Jacksonville, FL ............................................ 73

W

Waivers of Competitive Bidding Requirements - Quarterly Report ................................................................. 161,570
Washington, University of, Seattle, WA ................................. 581
Washington Higher Education Coordinating Board, Olympia, WA .............................................................. 74
Washington State Board for Vocational Education, Olympia, WA .............................................................. 582
Washington State Department of Natural Resources, Olympia, WA .............................................................. 581
Water Resources Building ..................................................... 145
Wells Fargo Investment Advisors ........................................... 15,561,607
Westinhouse, Sunnyvale, CA .............................................. 77
Westinghouse Electric Company, Pittsburgh, PA ..................... 202
Williamson Builders, Plain City, OH ..................................... 415,497
Winthrop Pharmaceuticals, New York, NY ............................ 71
Wolfe, H. P., Chair in Accounting Fund (The) ................................................................. 207
World Bank, Washington, DC ....................................................................................... 329
World Book Encyclopedia, Chicago, IL ........................................................................... 326
Wulchet, John Weller, Jr., and Norma Johns Wulchet Endowment Fund (The) ............ 204

Y

Young Scholars Program ................................................................................................. 299

Z

Ziegler, Cody, Summit Station, OH .................................................................................. 417,497
Zirkle, Virginia I., Scholarship Fund (The) .................................................................. 335
Zirkle Endowment for Undergraduate Instruction for Innovation (The) ................. 587
Zollinger, Robert M., Lectureship Fund ........................................................................ 337
Zoology and Botany Greenhouse ................................................................................... 588,621
1989-1990

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Term Beginning</th>
<th>Term Expiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>John W. Berry, Dayton</td>
<td>May 14, 1981</td>
<td>May 13, 1990</td>
</tr>
<tr>
<td>Hamilton J. Teaford, Columbus</td>
<td>May 14, 1983</td>
<td>May 13, 1992</td>
</tr>
<tr>
<td>John J. Barone, Toledo</td>
<td>May 14, 1984</td>
<td>May 13, 1993</td>
</tr>
<tr>
<td>Deborah E. Casto, Columbus</td>
<td>May 14, 1985</td>
<td>May 13, 1994</td>
</tr>
<tr>
<td>John W. Kessler, Columbus</td>
<td>May 14, 1986</td>
<td>May 13, 1995</td>
</tr>
<tr>
<td>Milton A. Wolf, Cleveland</td>
<td>May 14, 1987</td>
<td>May 13, 1996</td>
</tr>
<tr>
<td>Leslie H. Wexner, Columbus</td>
<td>May 14, 1988</td>
<td>May 13, 1997</td>
</tr>
<tr>
<td>Alex Shumate, Columbus</td>
<td>August 10, 1989</td>
<td>May 13, 1998</td>
</tr>
<tr>
<td>Theodore S. Celeste, Columbus</td>
<td>June 19, 1990</td>
<td>May 13, 1999</td>
</tr>
<tr>
<td>Laurel A. Davis, * Tipp City</td>
<td>February 6, 1989</td>
<td>May 13, 1990</td>
</tr>
</tbody>
</table>

*Student Trustee -- non voting.

OFFICERS

John W. Berry, Chairman
Shirley D. Bowser, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer
Pursuant to paragraph (B) of bylaw 3335-1-01 of The Administrative Code of The Ohio State University, the Board met upon the call of the Chairman, John W. Berry, in a special meeting on Friday, January 5, 1990, at 11:30 a.m., at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

**          **          **
January 5, 1990 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on January 5, 1990, at 11:30 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

--0--

Mr. Berry:

First, we would like to have a status report on the Arthur G. James Cancer Hospital and Research Institute from Mr. Jackson.

Mr. Jackson:

Thank you, Mr. Chairman, members of the Board. First, let me say there is bad news. On December 18, 1989, a fire sprinkler line broke in several places at the very top of the Cancer Hospital. An estimated 300,000 to 400,000 gallons of water then cascaded down through the building. But then you know this. The rest of the news is good. Everyone involved with the project responded, without exception, in a quick and professional manner: the architects and engineers of the building; all contractors, without exception; the State Architect's Office; the Cancer Hospital staff; the University Hospital staff; the Office of Health Services; University and Hospital Communications; the University Architect's Office; the medical staff; and our attorneys. And I hope I haven't missed anyone, because of the superb job that was done.

I will try to keep this report short and then answer any questions you might have. We have given each of you a packet of information which was given to the press on Wednesday, approximately 48 hours after the incident. I trust you will find it helpful. This material is also consistent with the resolution and background you have before you today. I would like to, at this point, show a couple of overheads of some of the areas within the Hospital where the lines broke, and a short TV tape which I think will help explain what happened.

The first picture is of the east stairwell and the fire escape for the Hospital. You've heard discussions about a vent and an opening and that would be depicted by what looks like a little mushroom at the top of the stairwell. Floor 13, in this case, is shown here as the roof of the Hospital. The standpipe for the fire sprinkler system, which comes up this chase all the way up through the building, was in this area and just above the 12th floor landing. And it was in this area that the breaks in the waterline occurred, where the size of the line was 6 inches in diameter. There was a sprinkler head aligned beneath the ceiling, or just below the vent up there, which also froze and broke. The water then came down all of these floors, out underneath the doors and where ever it could get in. It came down to the 7th floor where this chase was closed off. Water built up in that chase and this whole wall kicked out here on the 7th floor. We had, what I expect, at some point in time, a titlewave of water from that point, across the 7th floor, then going down wherever it could.

This is just a floor plan of the 12th floor landing. This shaft, where we talked about a chase where the pipe goes vertically through the building, is here. This opening here was where the fire connection came out onto the landing and that fire connection was broken off at that point, and then there were a couple of other breaks also in the chase. Water went out here, we suspect, back onto this floor and
Mr. Jackson: (contd)

went down the stairwell and onto other floors. Of course, as it went onto the floors it then went on down.

There were some good things that happened on floors 11 and 12. Eleven and twelve are the research floors and those floors have a seamless vinyl flooring. So when they come to the edge of the wall they curve up. There is not a joint there except where they come to a corner, and then those are welded together. So the 11th and 12th floors acted like little bath tubs and the water didn't get into walls and was very helpful from that standpoint, until it found its way back out the doors and down onto other floors. Eleven and twelve are in better shape than are the other floors.

The other part of the good news, if you can find good news in these kinds of things, is that the building worked very much as it was designed and should have been designed. So I think that we ought to feel good that happened. This is the outside wall of the institution--brick construction. And these angles here, which go into the floor, hold that brick up. They are placed at various levels of the building. And the water came across the floor and through the walls and down. When it got to this point, it came through holes which were deliberately put in the brick to allow any moisture, which got into that section, out. And that was the great majority -- not all, but a great majority of the ice that appeared on the outside of the building. The water came out through those holes and came down. And as it came out, it froze. So, I think we ought to feel good that it was in there the way it should have been and functioned the way it should. There was other water that got out and I'm not going to kid you about that. But at least we believe that from our initial inspection that there is no damage to that brick or it is very minimal, if any. We are in the process of taking a very close inspection with the equipment that is on the building. We will be looking at that further, but we do not believe there is any problem. There is no structural problem with the building and I think that is also extremely good news.

I also have a short TV tape that I want to show you. These are some pictures of this very top up there -- what I call a "mushroom" on top there -- this is the vent we talked about which was opened and should not have been. This was the source of the cold air, which I believe caused the freezing of the pipes. It is about a 2 to 2 1/2 minute tape.

This is the top of the roof looking out into the sky -- this is the pipe work that is up there, but this is open to the sky. This is the mushroom, as I call it. They have lifted it off here and this is the grate or the vent that we talked about. At this point in time, the screw which was holding it open has been removed. As you can see, the workers are just moving the vent itself. In a second you will see the screw that was placed on the side of this housing to keep that open, and, of course, it was opened and was maintained opened, we think, probably from last summer. This is from the inside looking up and you can see the sky through the vent itself. They put the mushroom back on top of it and it is still in an open position. This is the date and time that this particular picture was taken. The picture that we will show you where the screw is in place was taken earlier and does not have a time and identification, but you will see the screw right there which forced that vent open. There is no date and time on it because it was done before the screw was taken out -- the actual condition that we found it that morning. This was also typical in the south stairwell, but we do not have problems there.
January 5, 1990 meeting, Board of Trustees

Mr. Teaford:

The south stairwell screw was there, too?

Mr. Jackson:

Yes.

Mrs. Bowser:

So, the cold air rushed in through that.

Mr. Jackson:

I believe that it was brought in through that because of a vacuum that was on the east end of 11 and 12. That is the actual failure of the sprinkler in the top of that where the back-half of that just fell off or froze off.

This is the vertical chase that we talked about, this is where that fire connection came out and actually broke off of that connection.

Mr. Teaford:

And we've broken through the wall in order to see this, is that right?

Mr. Jackson:

Yes. It is actually broken through.

Mrs. Bowser:

Is the building structurally sound, Dick?

Mr. Jackson:

Absolutely, no question about it. This is just another connection that was broken on the back-half. You can imagine what kind of water comes out of that. When those froze, they automatically triggered pumps which pumped between 1200 and 1500 gallons of water a minute out, because it was stopped it said, "we need water," so the system worked. It thought water was needed -- so it pumped it out.

To get back to your question, Shirley, on the research floors there are a lot of hoods for research purposes. Those hoods have a 100 percent exhaust, those are exhausting all the time, 24 hours a day. So when the main intake fans shut off, those hoods continue to work. They created a vacuum that sucked the air under those doors on 11 and 12. And that is where all of the cold air came from -- the majority of it in terms of -- I could spend a whole day talking about it, especially what I think happened.

By the first afternoon we were documenting the building condition and taking statements from everyone involved. This has proven helpful and will continue to be helpful as we proceed. Some statements still need to be taken from individuals who have not been available because of vacations, etc. The investigation still continues at this time.
January 5, 1990 meeting, Board of Trustees

Mr. Jackson: (contd)

The question of why the audible alarm was not functioning is still unresolved. I am uncomfortable with an understanding of what transpired with this system. As a practical matter, we would have been better off with only one contractor to turn to rather than the multiple contractors required by Ohio law. But then I have said that many times before.

At the direction of the University Medical Staff, we brought in an expert in microbiology to assist in the evaluation of the environment and to direct preventative measures to minimize further damage. The quick action to remove all water and debris has been helpful from this standpoint. The following weekend, materials were applied by specialists to help prevent further microbiological growth. This individual was in here by late Tuesday afternoon. Continued oversight of the work by the Medical Staff is taking place. There is no problem which cannot and will not be resolved. In addition, we are in the process of evaluating all systems room by room. The detailed estimate of repair costs will be available very shortly.

Better news. I believe that we can open the research floors 11 and 12 for use while meeting all requirements by February 12, 1990. Dr. Schuller has encouraged us to do this. I believe we can also open the remainder of the building by June 1, 1990, with your approval of the resolution today. I really know what happens when you make speculations on dates like that, but I do not believe these are unrealistic dates.

The Department of Administrative Services did approach the Honeywell Corporation by letter on December 20, 1989, and discussions are ongoing. In addition, we have notified our insurance carrier and they have been to the site and reviewed the situation. A claim will also be filed with them to protect our interests under that policy.

Our position has been to minimize damage, to document information of any kind, to evaluate damage, and to prepare to restore the building to a completed status for use. We ask for your approval of the resolution before you. I would be glad to try to answer any questions that you might have.

Mr. Berry:

Are there any questions?

Mr. Teaford:

The resolution is basically what?

Mr. Jackson:

The resolution is basically a status report and it says that we are proposing to spend money to get the facility open as quickly as possible and then seek restitution from those determined responsible.

(See Appendix XXXIII for Transparencies, page 651.)
January 5, 1990 meeting, Board of Trustees

Arthur G. James Cancer Hospital and Research Institute

Background

STATUS REPORT ON REPAIRS AND RESTORATION DUE TO DAMAGE FROM WATER LINE BREAKS

As you know, during the early morning hours of Monday, December 18, a frozen water line serving the sprinkler systems of the Arthur G. James Cancer Hospital and Research Institute burst in several places. The breaks poured water onto the 12th floor of the building and sent water cascading down to each of the lower floors. It is estimated that from 300,000 to 400,000 gallons may have gone through the building. The break was not discovered until a patient in University Hospitals notice an expanding puddle outside the Cancer Hospital and notified a nurse at about 3:00 a.m. Until then, Hospital and University security offices were unaware of the break because the remote monitoring devices for the life safety systems were not fully connected to the University's security system and operational.

The State Architect's Office and the University are continuing to investigate the cause of the frozen pipes. At this point, our investigation has confirmed that an employee of Honeywell, Inc., blocked a ceiling damper in an open position, preventing it from closing as designed. With temperatures falling below minus 5 degrees, pipes located in the east stairwell directly below the open damper were exposed to the frigid air and froze. We also believe that the air handlers which heat the east half of the 11th and 12th floors shut down at some point during the night, leaving those areas without heat. Finally, there exists the possibility that an exterior door to a mechanical room located on the roof was left open, but it is not believed to have contributed to the problem.

The resulting damage was serious and extensive, but at this point we are confident that the facility remains structurally sound. There was water damage on every floor to ceiling tile, some dry wall ceilings, walls, and floors. There was, however, no apparent damage to the exterior walls. Approximately $6.6 million in equipment, including two linear accelerators, sustained no damage. About $2.5 million in equipment did come in contact with water, but the extent of the damage to this equipment has not yet been determined. While much of the carpeting and furniture came in contact with water, most does not appear to have sustained permanent damage.

By the morning of Wednesday the 20th, a team was in place to coordinate assessment of the damage and the necessary repair and restoration work. That team consists of representatives from the State Architect's Office, the Cancer Hospital, the University Architect's Office, Business and Administration, Health Services, the Associate Architect for the facility, and all building contractors. The team has in place a plan of action and will conduct a complete review of every system in the building. It is expected that this team will have a preliminary evaluation ready within the next few weeks.

Meanwhile, cleanup work and repairs are continuing. Cleanup work began within two hours of discovery of the damage, and by December 20, nearly all standing water had been removed. As of now, all debris has been removed, the building is dry, and all building systems operational before the water break are again functioning normally.

The University, in cooperation with the State Architect, is proceeding to evaluate the necessary repairs. To prevent additional delays and further damage, the restoration work will be done by the various contractors working on the facility. This will be accomplished through modifications and change orders to the existing construction contracts. Again to prevent delays, the University is temporarily assuming the cost of all cleanup and repair work. Once we can firmly establish responsibility and liability for the damage, costs will be charged to the party or parties
January 5, 1990 meeting, Board of Trustees

Arthur G. James Cancer Hospital and Research Institute (contd)

Background (contd)

STATUS REPORT ON REPAIRS AND RESTORATION DUE TO DAMAGE FROM WATER LINE BREAKS (contd)

responsible. The very preliminary estimate is that the total cleanup and restoration cost could exceed one million dollars.

Dr. David Schuller, Director of the Cancer Hospital, reports that this event has had no negative impact on the efforts to recruit a top medical and support staff for the facility. To our knowledge, none of the individuals who have been recruited have given any indication that they plan to alter their commitments to join the staff. Further, the damage will not affect oncology patients at University Hospitals. The site visit for the Core Grant Application of the Comprehensive Cancer Center, planned for February 7-8, will take place as scheduled. However, further delays in obtaining access to the building, especially to the research laboratories, could adversely affect progress on the University's cancer research programs. For this reason, the University has decided to focus initial restoration work on the research areas of the facility - the 11th and 12th floors.

ARTHUR G. JAMES CANCER HOSPITAL AND RESEARCH INSTITUTE
Resolution No. 90-63

STATUS REPORT ON REPAIRS AND RESTORATION DUE TO DAMAGE FROM WATER LINE BREAKS

Synopsis: Status report on repairs and restoration due to damage from water line breaks for the Arthur G. James Cancer Hospital and Research Institute.

WHEREAS on December 18, 1989, frozen water lines in the Arthur G. James Cancer Hospital and Research Institute burst and caused serious and extensive damage to the nearly completed facility; and

WHEREAS the University has in place a team to investigate the cause of this emergency and to coordinate assessment of the damage and the necessary repair and restoration work, with the team being composed of representatives of the State Architect's Office, the Cancer Hospital, Health Services, the University Architect's Office, the Associate Architect for the facility, Business and Administration, and all contractors working on the building; and

WHEREAS to prevent additional delays and further damage, the University, with the concurrence of the State Architect, is proceeding with necessary repairs and restoration work, to be accomplished by the various contractors currently working on the facility through modifications and change orders to the existing construction contracts; and

WHEREAS again to prevent additional delays, the University is temporarily assuming all costs for cleanup and repair and restoration work and will charge those costs to the responsible party or parties once responsibility and liability for this situation have been determined; and

WHEREAS the University is doing all things necessary to accomplish the repair and restoration work as expeditiously as possible and in a professional manner in keeping with the standards set for this facility to ensure that the Cancer Hospital can open as soon as possible:
January 5, 1990 meeting, Board of Trustees

ARTHUR G. JAMES CANCER HOSPITAL AND RESEARCH INSTITUTE (contd)

STATUS REPORT ON REPAIRS AND RESTORATION DUE TO DAMAGE FROM WATER LINE BREAKS (contd)

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby accepts this report on the water damage to the Arthur G. James Cancer Hospital and Research Institute and authorizes the University administration to proceed as outlined in the report to accomplish necessary repair and restoration work to prepare for the Cancer Hospital to open as soon as possible and to temporarily assume the costs of such work until the costs can be charged to the party or parties responsible.

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Business and Administration shall submit to this Board as soon as practicable a dollar amount associated with these repairs along with an estimate of what amount, if any, may be the ultimate responsibility of the University.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Mr. Berry:

We would like everyone to know that we have been in the process of establishing a search committee for the position of the President. We have a resolution before you. I think that rather than read the whole resolution, I may read one part of it:

"BE IT FURTHER RESOLVED, That the Search Committee is charged with representing the best interests of the University in planning and directing all aspects of a comprehensive and expeditious search for a new President including developing a list of candidates, reviewing the qualifications of candidates and making a recommendation of one or more candidates to the Board at or before the regular Board of Trustees meeting in July 1990."

I guess that is the guts of the resolution. The makeup of the search committee has been publicly announced and I guess it is open to questions. Does anybody have any questions about the resolution?

Mr. Teaford:

One thing everyone should realize -- I had an occasion last night to review the search committee processes at three other Big Ten universities. In two of those three Big Ten universities, the search committee was made up entirely of trustees. Both had advisors, but even with advisors the various constituent groups were required to give a list and the trustees picked from among the list. The third university did include some non-trustees and a minority of the committee and, again, lists submitted to the trustees and the trustees picked. There are four members of the fifteen-member search committee who have been selected by the Board in this case, and those are the four Trustees. I think it is very significant to know that, because it will have a great effect on what kind of search is being conducted. This Board of Trustees is not afraid of the constituent parts of the University and want their involvement directly in the process. I move the resolution, Mr. Chairman.
January 5, 1990 meeting, Board of Trustees

Ms. Paige:

Mr. Berry, I have a question that I wanted to ask. I was reviewing the students that were nominated from the student population and my main concern -- I believe that Catita Williams is a Graduate School student and David Straub is an undergrad. And I was wondering if it would be feasible for a professional student to be added to the student population seeing that every other facet of the University is basically represented with the composite of the fifteen. What is the possibility of adding a third student to the student population, so there could be a representative from the undergraduate, the Graduate School, and the professional school?

Mr. Kessler:

When we set up the fifteen we said two students, we didn't say one from every -- and it was up to Russ Spillman and the student leadership to come up with the two, and the two happened to be that. My only concern is in the size of the Search Committee. In talking with search committees who have been successful, the smaller the search committee, the easier it is to come to consensus and do it in a timely fashion. And I am just afraid if you keep making it bigger and bigger, it is going to make it -- fifteen is a pretty could size number.

Ms. Paige:

Well, I just wanted to express that. That is my main concern is that the professional school --

Mr. Berry:

I agree with Mr. Kessler's answer -- but certainly the search committee wants the input of everyone, all constituencies, and certainly anyone from the professional schools should give any input they might have to the student representatives, including certainly the Student Board Members. The Board will be reviewing what the Search Committee has found out and, while they aren't represented per se, we certainly aren't excluding any views that any of the students from the professional school's have.

Mr. Teaford:

I'd like to say two things on that. One, happily we know that professional students will have a voice in this, because, indeed, one of them is on the Board. So that is a fortuitous circumstance. But continuing what I said earlier, I think it is important that this Board not try to form this committee as we want it formed, but rather we should let the constituent parts make those choices. And I think for that reason, the students have made a choice that I think --

Mrs. Bowser:

As have the faculty and deans.

Mr. Teaford:

As have the faculty. I think we should go with that without trying to fiddle with it.
January 5, 1990 meeting, Board of Trustees

Mr. Berry:

But we shouldn't exclude any input.

Mr. Teaford:

No, absolutely right.

Mr. Berry:

I think that is the important thing. I don't know if that answers your question or not, Sophia?

Ms. Paige:

Yes. I just wanted to bring up that concern.

Mr. Berry:

Any other questions?

ESTABLISHMENT OF SEARCH COMMITTEE FOR
POSITION OF PRESIDENT

Resolution No. 90-64

Synopsis: Establishment of Search Committee for position of President is proposed.

WHEREAS Dr. Edward H. Jennings has decided to relinquish his position as President of The Ohio State University and return to the Faculty effective September 1, 1990; and

WHEREAS it is the responsibility of the Board of Trustees to select the University President; and

WHEREAS the Board of Trustees has determined that the most appropriate method of evaluating candidates for the position of President is to establish a Search Committee which will have broad representation of many University constituencies and which will make recommendations to the Board regarding the best qualified candidates to be the next President of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That the Chairman of Board of Trustees shall appoint a Search Committee for the position of The Ohio State University President which will have the following membership:

4 Trustees, one of whom shall serve as Chairperson of the Committee
5 Members of the Faculty
2 Students
1 Dean
1 Director of The Ohio State University Alumni Association
2 Non-teaching Staff
January 5, 1990 meeting, Board of Trustees

ESTABLISHMENT OF SEARCH COMMITTEE FOR POSITION OF PRESIDENT (contd)

BE IT FURTHER RESOLVED, That the Search Committee is charged with representing the best interests of the University in planning and directing all aspects of a comprehensive and expeditious search for a new President including developing a list of candidates, reviewing the qualifications of candidates and making a recommendation of one or more candidates to the Board at or before the regular Board of Trustees meeting in July 1990; and

BE IT FURTHER RESOLVED, That the Search Committee shall seek appropriate internal and external assistance with the search, including the retaining of outside consultants, and shall make use of the Office of the Secretary of the Board of Trustees for assistance and coordination of the process. The Committee shall serve until discharged by the Board of Trustees or upon the appointment of a new President; and

BE IT FURTHER RESOLVED, That any actions taken by the Chairman and the Board of Trustees to carry out this resolution prior to its effective date are hereby ratified and approved.

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

Mr. Berry:

At this time, I will name the members of the Search Committee, many of whom are known to some. I'll name the members for the benefit to all present. I think we have an excellent search committee from all aspects:

**Trustees**

John W. Kessler, Chairman  
Shirley D. Bowser  
Hamilton J. Teaford  
Alex Shumate

**Faculty**

Bunny Clark, Professor, Physics  
Nathan Fechheimer, Professor, Dairy Science  
Judith Keroslik, Associate Professor, Art Education  
William Moore, Jr., Professor, Educational Policy and Leadership  
Nancy M. Rudd, Professor, Family Resource Management

**Students**

David Straub  
Catita Williams

**Dean**

C. William Kern, Mathematical and Physical Sciences
January 5, 1990 meeting, Board of Trustees

ESTABLISHMENT OF SEARCH COMMITTEE FOR POSITION OF PRESIDENT (contd)

Mr. Berry: (contd)

Director of The Ohio State University Alumni Association

Dan L. Heinlen

Non-teaching Staff

Mona K. Dove, Assistant College Secretary, Arts and Sciences Administration
Joan E. Patton, Chief Fiscal Officer, College of Medicine, Health Services Administration

I think that all of these people come from a wide background and will do a very able job of representing all constituencies of the University. Mr. Kessler, I am sure you will find that you have a very able group to work with.

Mr. Scott:

I have one comment. The first meeting of the committee will be at the call of the Chair and notification to that effect will be from Mr. Kessler.

Mr. Berry:

Are there any other comments or business? We will now adjourn for the purpose of holding an Executive Session to consider legal issues and personnel actions.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford.

--0--

Thereupon the Board adjourned to meet Thursday, February 1 and Friday, February 2, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

John W. Berry
Chairman
APPENDIX XXXIII

TRANSPARENCIES

Presented to the Board of Trustees January 5, 1990
(See page 640)
SECTION AT EAST STAIR
1. **Fire hose cabinet** - fed from standpipe
2. **Standpipe** - break at this line from cold
3. **Pipe shaft enclosure** - large portion of water from break flowed down shaft to seventh floor
4. **Stair shaft** - remaining water from break flowed down stairs to every floor
5. **Water flow**

EAST STAIR - FLOOR 12
1. CONCRETE STRUCTURE
2. FACE BRICK
3. RELIEF ANGLE
4. WEEP HOLES
5. FLASHING
6. DAMPPROOFING OVER EXTERIOR GYP. SHEATHING
7. INSULATION W/V.B.
8. GYPSUM BOARD
9. PATH OF WATER TO EXTERIOR

(EXTERIOR WALL)
DETAIL AT TYPICAL FLOOR
The Board of Trustees met at its regular monthly meeting on Friday, February 2, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

** ** **

Minutes of the last meeting were approved.

** ** **
The Vice Chairperson, Mrs. Bowser, called the meeting of the Board of Trustees to order on February 2, 1990, at 11:45 a.m. She requested the Secretary to call the roll.


Mrs. Bowser:

We will now have a special report from James S. Gallagher, Director of the Men's Glee Club, and Samuel Whitmer, Business Manager of the Men's Glee Club, on the upcoming European Tour. I am only disappointed that you only brought four members -- I thought you would bring them all and we would have a serenade.

Mr. James Gallagher:

Thank you, very much. My name is Jim Gallagher and I am the Director of the Men's Glee Club and these gentlemen before you are some of the officers from the Glee Club. We thought of bringing all ninety-five members, but due to your busy agenda we thought that this cassette tape from a recent tour to Washington, D.C., might be more appropriate. We hope that this tape will give you a little deeper understanding of the high musical performance of the group, the good will, and positive P.R. that they are able to spread representing The Ohio State University.

The Men's Glee Club represents virtually every college in the University. Their academic standards are very high and they are very busy in many, many activities. I want to tell you that the four people you see here today, in the bright red blazers, have a cumulative point average of 3.75 in such majors as premed, prelaw, mathematics, and mechanical engineering. So, they're fine students and very busy. Here to make our presentation to you is the business manager, Mr. Sam Whitmer.

Mr. Samuel Whitmer:

Good morning. Concerning the tour -- the foremost purpose of our tour is to promote the musical excellence of The Ohio State University. The Glee Club has performed for numerous community events such as the Wexner Alumni Reception, alumni group functions, WBNS Wigwam, Galbreath's Darby Dan Farm, the Presidents' Club, Tailgating, and various other organizational events. We have also performed throughout Ohio, for various concert series, State conventions, and also at high schools for recruitment purposes. Nationally, we have performed at conventions such as MENC, and ACDA. We also have a tour each year that takes us out of the state.

We have established a fine reputation for musical excellence and this trip would allow us to promote that excellence even further, internationally. This trip will also provide a means of musical and historical education for the participants. Historically speaking, tours are provided in each city as a part of our travel package -- this includes entrances to all major attractions. For years many of us have read about or heard about famous sites such as Big Ben, the House of Parliament, Shakespeare's birth place, and the Canterbury Cathedral. This is our opportunity to see these places first hand and to experience the history of our forefathers. We will also be staying in homes and at universities, and this will enable us to further our education of European culture.

Musically speaking, the International Musical Eisteddfod and the Welsh Choir Concert will allow us to observe and learn musicianship from top choirs of other
nations. We will learn new techniques as well as new literature.

It is a great honor for us to be considered by the Festival Committee of the Musical Eisteddfod since only two choirs from each nation are considered to take part in each category of competition. Representatives of the Festival assure us of our acceptance and we will hear the final word from the Festival Committee by the end of February. This Festival is one of the finest, most recognized choral competitions in the world, and our participation will further the reputation of excellence at The Ohio State University. We like to think of this competition as a "Rose Bowl" of music, and we are approaching it with all the enthusiasm of a Rose Bowl-bound football team.

Our final purpose of this tour is to promote AmeriFlora '92. We will be taking material for distribution, as well as informing the public of the celebration and the events that will take place here in Columbus. We will also be inviting new found friends from the Welsh Choir and those met at the Eisteddfod to come to America and take part in our 500th Anniversary Celebration. After speaking to AmeriFlora personnel on Tuesday, we have also decided to try to rearrange our plans to enable us to represent Columbus at the AmeriFlora Garden at Gates Head. By doing this, we would be representatives of the University, the City of Columbus, the State of Ohio, and the nation.

Our major concern and reason for being here today is a concern that you are very familiar with -- that of funding. We are very excited about the opportunities that await us, but are in need of some assistance in raising the proper funding. Approximately $50,000.00 is still needed. We have some contacts with corporations and have confronted them through letters and personal visits as allowed. Much to our dismay, most of our contacts have not proven helpful in funding. We have approached the Glee Club Alumni and through them have funded the down payment. We also have written an article for the Alumni Magazine asking for University alumni support. As a sidenote, the article in the magazine is, as of now, incorrect. At the time of print we had planned on a three-week tour with participation in the International Musical Vienna Festival and a few days in our sister city of Genoa, for further promotion of AmeriFlora. This is simply not feasible due to lack of funding; that trip was going to cost us $180,000.00. What we are asking of you is promotion of our tour and the generation of corporate and individual support. Our personal communications with corporations and individuals has not been enough. We need the personal contacts that you, the Board of Trustees, can make. Just by your enthusiastic support and self-promotion we feel that we can generate the needed corporate and individual funding. We hope that you are able to assist us in this. This concludes my presentation and at this time I would like to open the floor for questions and concerns that any of you might have.

Mr. Kessler:

It sounds very exciting.

Mr. Whitmer:

I am very excited about the trip.
February 2, 1990 meeting, Board of Trustees

President Jennings:

I think it is a marvelous tour and I think you will represent not only Ohio State, but the nation extraordinarily well. I am absolutely confident that you will raise the money and I see that, Jim, you already raised a great deal. You are so confident and the institution is so confident that we will continue to plan on this. It is great that you put the heat on all of us. This is something that we all ought to be interested in helping with.

Ms. Davis:

I'd like to add my remarks in that I would have to agree with you that the men that are taking part in this are very active. I am familiar with two of the four that are here, and they are very active in student activities and organizations, particularly honoraries on campus. They're active academically, as well as in extracurricular activities.

Mrs. Bowser:

We thank you for your report. One of the beauties of Ohio State is its comprehensiveness. We not only have a football team going to the Rose Bowl, but we have young male singers going to Europe to represent us so well. We appreciate your report. Madison --

Mr. Scott:

You may have covered this, but how did you decide on this tour?

Mr. Gallagher:

It is a wonderful opportunity and we spoke with several persons that have been involved and they said it is certainly well worth the time and energy spent in preparation, as well as the time there. There are nine adjudicators from throughout the world that work with you and comment on your performance and help you. We looked into it, and enough people said, "go for it," so, we sent the tapes and they seemed very enthusiastic. The final decision is up to them, but things are looking very good.

Mrs. Bowser:

It has been very nice to have you with us.

Mr. Gallagher:

Thank you, very much.

--0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

I would like to read a report from the Research Foundation grants and contracts for the month of December 1989 which is shown in the Board agenda book. There are 82 awards listed which provide a gross income of $6.7 million.
February 2, 1990 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

Funding for the first six months of the fiscal year is 5.6 percent behind that of last fiscal year at this time. Only in the "Other Non-Federal" sponsor sector, is funding running ahead of last year.

Some highlights of awards are:

$108,000 from the Department of Health and Human Services to study parental occupations and child care effects on child development.

$38,000 from the Franklin County Mental Health Board for a training program for mental health professionals.

$25,000 from the National Science Foundation for a study of automatic inspection systems.

$21,000 from American Cyanamid Company for an investigation of methods of reinforcing broken bones in children.

Thank you, that concludes my report. Dr. Thomas L. Sweeney, Acting Vice President for Research and Graduate Studies, is available to answer any specific questions you may have.

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The University Hospitals Board has met twice since we last met. The first being on December 7.

In response to a request by the Professional Affairs/Education/Research Committee, Dr. Mekhjian presented an overview of medical staff committees, their function and reporting mechanisms. Specific data on each medical staff committee is being reviewed and will be brought back for approval at our next meeting. Dr. Mekhjian said that all of those committees were necessary, I might add. The Committee also received a comprehensive review of the Hospitals’ quality assurance program and the key indicators to be utilized in future reports.

Dr. Donald Senhauser reported that steady progress is being made with regard to centralized billing. Dr. Joseph Drago and an executive committee have been elected by department representatives to guide that program. Dr. Senhauser estimated that all elements of the new system will be in place in six months, which may be an optimistic medical view, but nevertheless we can hope. Mr. Jerry Maier reviewed past and current performance of the MedOhio facilities and discussed possible strategies for the future. Randy Allen presented the October financial report and outlined strategies for facilitating our billing and account collections, which, I might add, continues to be a pressing problem for the University Hospitals.
February 2, 1990 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

On Thursday, January 25, the Hospitals Board conducted a brief business meeting prior to our day-long retreat. We reviewed the December financial and statistical reports which revealed that although the number of admissions remain slightly over budget for the first six months of the fiscal year, the total number of patient days was below budget because of shorter average stays. In November, the patient census unexpectedly dropped to a level that was 45 patients per day below the number budgeted, resulting in a deficit situation at the end of the first six months of the fiscal year. Patient activity in January started slowly but increased dramatically, with more than 200 admissions in one 72-hour period. I might add that one of the real problems with the Hospitals census is that on Wednesday, the Hospitals' census is 100 percent, but on the weekends it is significantly lower -- more like 50 percent.

Mrs. Bowser:

Explain why.

Mr. Teaford:

Well, there are a couple of reasons, but the principle one is that staff want to work during the week as opposed to weekends. That is a problem that we need to work on, because we, obviously, aren't fully utilizing resources if we are in that kind of circumstance.

We expressed our concern about the potential impact of early retirement on the Hospitals' financial status, since our approved 1989-90 fiscal budget does not include any early retirement expenses, which are now being estimated by the Hospitals' people between $8 - $12 million. The effect of that is really very significant to the Hospitals and we are going to have to find some way to find that money.

Mr. Scott:

The number is closer to $7 million.

Mr. Teaford:

Closer to $7 million -- good, I'm glad to hear that. Mr. Fraley also informed us that the administration has initiated an aggressive program to manage net income, which is designed to let individual areas manage against their own bottom line. The plan includes five levels of controls, ranging from level one (normal operations) down to level five (the most critical). The Hospitals are now operating at level four -- in other words one step off the most critical -- which imposes strict controls on overtime, temporary hires, planned capital expenditures, and replacement hiring. Mr. Fraley stressed that these hiring controls are not applied to registered nurses, physical therapists or respiratory therapists who provide hands-on patient care, nor to individuals involved in the medical records coding and billing process. Certain programs not operating within budgeted levels are being reviewed closely and being asked to develop alternative operating plans that will be expected to correct the situation. These measures are designed to move the Hospitals closer to the original 1989-90 fiscal budget; however, the potential impact of the continuation of the early retirement program is not included.
February 2, 1990 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

We reviewed the Auditors' Letter of Recommendations and were informed that there has been improvement in the Hospitals since last year. We discussed proposed revisions to the Hospitals Board Bylaws and will bring forward our recommendations within the next few months. Dr. Kramer appointed a nominating committee to identify candidates for Hospitals Board leadership during the coming year. The committee is composed of Mrs. Bowser, Mr. William Bennett, and myself. We received a medical staff report and took under advisement a medical staff request for better signage, particularly on the Hospital building. There is probably no greater desire at the Hospital than to have a sign so that you can find the Hospitals right away when you need it.

Lastly, Mr. Fraley presented status reports on the affiliation with Beechwold Medical Center, which we will discuss here later, the reorganization of SkyMed, and the successful United Way Campaign. We also viewed two television commercials which, I assume, by now all of you have seen. They are very excellent intensive care commercials. They really are excellent, and I think give a very strong message about University Hospitals.

I want to briefly add a little bit about our retreat. The principle presentation at the retreat was made by William O. Cleverley. Dr. Cleverley is a Professor in Hospital Administration at this University and travels all about the country doing analyses of hospitals and making such presentations as he made to us. He charges big fees to everybody else for doing that, but, he donated his services to University Hospitals for which we were very grateful.

Some of the key things found in his study is that University Hospitals performed financially at an average or better level when compared with major university-teaching hospitals. Unfortunately, when compared with local hospitals not associated with the teaching mission, it generally performed at a much lower level. I don't think that surprises anybody. A very important factor he pointed out, was that the productivity, especially when adjusted for case-mix -- in other words for the acuity of the illnesses with which we are forced to deal -- was exceptional, particularly in 1989. He advised us that the average age of the plant, including the equipment, is older than other teaching hospitals and local community hospitals, and that perhaps this is the most serious problem facing the Hospitals. He did say that the availability of replacement funds is average for University Hospitals, but very low compared to local community hospitals. Dr. Cleverley also proposed a five-year performance strategic financial plan for us which I won't go into. The key thing that it identifies is that we have very significant capital needs over that period. We did discuss this, and we will obviously have several more discussions about how those can be obtained.

Mrs. Bowser:

I would just like to add that I attended the day-long session, too. There was good participation, good attendance, and I hope this becomes the first of an annual workshop/seminar for the Hospitals Board and administration. It was a day well-spent. Joel did a more than adequate job of reporting. Are there any questions?

--0--
February 2, 1990 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee reviewed the status of the Endowment Portfolio which showed a market value of $302.1 million dollars as of January 19, 1990.

That concludes my report.

(See Appendix XXXIV for complete text of The Ohio State University Endowment Summary, January 19, 1990, page 731.)

--0--

ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

Today, we had a summary of satellite video conferencing activities in the College of Agriculture. Larry Whiting reported to us that since February 1987, the College of Agriculture has been offering instructional programming via satellite broadcasting. To date, 38 programs representing more than 60 hours of air time have been produced from our studio in Kottman Hall. Once on satellite, programs can be received by anyone with a receiving dish almost everywhere on the North American Continent. We describe this effort as video conferencing, because viewers can call in questions and interact with the presenters while the program is on the air. Some PBS stations, many cable systems, and some community low-power television stations carry some of our programming. We believe our largest audience was a soap and detergent symposia in May 1989, that involved 180 receiving sites with some at corporate locations such as Proctor and Gamble and Whirlpool.

Ohio State topics have involved a series on grain marketing, youth decision making skills, cholesterol and health, alternative agricultural enterprises for farmers, farm policy and marketing trends, bankruptcy laws, water quality, leadership development, and many others. The average cost is just over $600.00 per program. Nearly 30 of Ohio's County Extension offices have satellite dishes. The goal is to have dishes in each of our county offices in the next 24 to 36 months. The average cost of a satellite dish is approximately $2,500.00.

The formation of a non-profit land-grant corporation called AG'SAT, which now has 26 universities participating, is expected to improve coordination of programming, the development of many new educational programs including courses for credit, and open up possibilities for research opportunities as well. AG'SAT, an effort for which the University of Nebraska is providing leadership, will be making 50-50 cost share grants available to member schools for receiving dishes and transmitting equipment.

The 1990 Ohio State schedule calls for 15 satellite programs. Four of these efforts will be in-service for extension faculty and staff.

We really believe that this is on the cutting-edge of technology in the television industry in education. We hope that we can continue this, especially the in-classroom instruction. They have talked about maybe doing some overseas things with Russia and the Eastern European countries. I look for some great and new things in that area.
Ms. Casto: (contd)

The Academic Affairs Committee is recommending for approval the following resolutions:

EXTENSION OF THE SELECTIVE ADMISSION POLICY

Resolution No. 90-65

Synopsis: The Academic Affairs Committee recommended the approval to extend the Selective Admission Policy.

WHEREAS The Ohio State University continues to experience increased demand by prospective students for admission, with limited space available under the University's enrollment ceiling; and

WHEREAS the number of new first-quarter freshmen (NFOQ) applications for Summer and Winter Quarters has increased significantly and the admission of NFOQ students has closed earlier each year for these quarters, closing on January 20 for Summer 1989 and on August 25 for Winter 1990; and

WHEREAS transfer admissions for Autumn and Summer Quarters have consistently been closed well in advance of the published deadlines and were closed on September 13 for Winter 1990; and

WHEREAS student retention rates have increased and the percent of minority students in the undergraduate student body has increased since the Autumn Quarter selective admission policy became effective in 1987; and

WHEREAS data indicate that students who are admitted to the University under the selective admission process have a higher retention rate than other students:

NOW THEREFORE

BE IT RESOLVED, That The Ohio State University selective admission policy adopted by the Board of Trustees for Autumn Quarters on June 11, 1986, will be extended to Winter and Summer Quarters for new first-quarter freshmen on the Columbus campus, effective Summer Quarter 1991; and

BE IT FURTHER RESOLVED, That the University's selective admission policy will be extended to all part-time evening students pursuing a degree on the Columbus campus; and

BE IT FURTHER RESOLVED, That the students from The Ohio State University regional campuses or the Agricultural Technical Institute who have 45 credit hours and a 2.0 cumulative grade point average may transfer to the Columbus campus with no other standards. Students with fewer than 45 credit hours may transfer if they meet the freshmen selective admission standards. For those students with fewer than 45 credit hours who do not meet these standards, performance in classes taken at the regional campuses or the Agricultural Technical Institute will be taken into consideration. Exceptions to this policy can be made for special cases in response to student petitions to the Faculty Admissions Committee; and
February 2, 1990 meeting, Board of Trustees

EXTENSION OF THE SELECTIVE ADMISSION POLICY (contd)

BE IT FURTHER RESOLVED, That Continuing Education will remain a non-degree-granting enrollment unit. Continuing Education students with 45 or more credit hours who have a 2.0 cumulative grade point average may transfer to degree-granting colleges or to University College with no other standards. Students with fewer than 45 credit hours may change to degree status if they meet the freshmen selective admissions standards. For those with fewer than 45 credit hours who do not meet these standards, performance in University classes will be taken into consideration. Exceptions can be made for special cases in response to student petitions to the Faculty Admissions Committee. In all cases, students seeking to transfer from Continuing Education to a college with special entry requirements will need to meet the requirements of the college; and

BE IT FURTHER RESOLVED, That students who wish to transfer to The Ohio State University from other two-year and four-year post-secondary institutions will be guaranteed admission, subject to admissions deadlines, if they are Ohio residents with 90 or more completed credit hours and a 2.0 cumulative grade point average. The Faculty Admissions Committee will establish standards for other transfer students consistent with the principles set forth in the Council on Admission and Registration's document of May 26, 1989.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

RENAMING OF DEGREE

Resolution No. 90-66

Synopsis: The Academic Affairs Committee recommended renaming the tagged Bachelor of Science in Home Economics degree the Bachelor of Science in Human Ecology.

WHEREAS the Council on Academic Affairs and the faculty members of the College of Human Ecology fully support renaming the tagged Bachelor of Science in Home Economics degree as the Bachelor of Science in Human Ecology; and

WHEREAS renaming the tagged bachelor's degree is consistent with the recent name change for the College; and

WHEREAS the Home Economics graduate programs offered under the Master of Science and the Doctor of Philosophy have been renamed as the Master of Science program in Human Ecology and the Doctor of Philosophy program in Human Ecology; and

WHEREAS the University Senate approved the renaming of the tagged Bachelor of Science in Home Economics degree to the Bachelor of Science in Human Ecology on December 2, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the tagged Bachelor of Science in Home Economics degree to the Bachelor of Science in Human Ecology, effective immediately, is hereby approved.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

664
February 2, 1990 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY
Resolution No. 90-67

Synopsis: The Academic Affairs Committee recommended amendments to rule 3335-5-47 and the rescission of rule 3335-5-474 of the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on December 2, 1989, as follows:

AMENDED RULE

3335-5-47 Organizing committees of the senate.

(A) The senate shall have three organizing committees (see rules 3335-5-471 to 3335-5-473 of the Administrative Code):

(1) Steering committee;

(2) Program committee;

(3) Rules committee;

(Balance unchanged.)

3335-5-474 to be rescinded.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

UNIVERSITY HOSPITALS BOARD APPOINTMENT
Resolution No. 90-68

Synopsis: Confirmation and approval of a nominee to the University Hospitals Board.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

665
UNIVERSITY HOSPITALS BOARD APPOINTMENT (contd)

WHEREAS the term of a general public member of the Hospitals Board has expired:

NOW THEREFORE

BE IT RESOLVED, That the following nominee be approved as a general public member of the University Hospitals Board, effective immediately, for a term ending April 30, 1993:

Dolores R. Wilkes, R.N.

Upon motion of Mr. Teaford, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

HONORARY DEGREE

Resolution No. 90-69

Synopsis: The Academic Affairs Committee recommended the approval for awarding an honorary degree.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of an honorary degree as listed below:

Robert W. Wissler

Doctor of Science

Robert William Wissler received his A.B. degree from Earlham College in Richmond, Indiana, in 1936. He then pursued his education, receiving the M.S., Ph.D., and M.D. degrees from The University of Chicago from 1943 to 1948. Dr. Wissler has served as a teacher, researcher and Chairperson of the Department of Pathology at The University of Chicago for almost 50 years. He has been a dedicated teacher in both clinical and experimental pathology, and has made major scientific contributions in his area of research expertise, namely, atherogenesis. Dr. Wissler has published over 250 papers in this field, and has been particularly recognized for his research activities, which have investigated the nature of the human and primate atherosclerotic lesion and the role that nutrition plays in the development and regression of atherosclerotic lesions. His contributions to our understanding the multi-functional role of the smooth muscle cell and the role of monocyte macrophages in atherogenesis have been landmark concepts in our understanding of the development of coronary atherosclerotic disease. Dr. Wissler has had major involvement with the American Heart Association, the American Board of Pathology, the Armed Forces Institute of Pathology, and the American Associations of Pathology. In addition, Dr. Wissler has been a continuous adviser to the National Heart, Lung, and Blood Institute for over three decades.

For his many contributions to the scientific community, teaching and training of students, and service to the community, Dr. Wissler has received many honors, including honorary doctoral degrees from Earlham College, the University of Heidelberg, the University of Medicine and Dentistry of New Jersey, and the University of Siena. Dr. Wissler has impacted The Ohio State University directly by fostering and sponsoring a major research program in the Department of Surgery on the "Pathobiological Determinants of Atherosclerosis in Youth." It was directly as a result of Dr. Wissler's efforts that The Ohio State University was designated as the Central Laboratory for the National Heart, Lung, and Blood Institute's multicenter cooperative study on the "Pathobiological Determinants of Atherosclerosis in Youth."
February 2, 1990 meeting, Board of Trustees

HONORARY DEGREE (contd)

Dr. Wissler, in his 50 years of academic life, has given freely of his time, ideas, knowledge, and friendship. He has helped to form two generations of pathologists and scientists in the field of atherosclerosis research. Dr. Wissler's dedication to excellence in teaching, research, service and true friendship is a model for all of us.

NOW THEREFORE

BE IT RESOLVED, That the honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

DEGREES AND CERTIFICATES - WINTER QUARTER COMMENCEMENT

Resolution No. 90-70

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Winter Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on March 16, 1990, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Amb. Wolf, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS

Resolution No. 90-71

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the December 1, 1989 meeting of the Board, including the following Appointment, Reappointment of Principal Administrative Official, Appointment of Chairpersons of Departments and Director of School, Reappointment of Chairperson of Department, Leaves of Absence Without Salary, Leave of Absence Without Salary—Continuation, Professional Improvement Leave—Change in Dates, Emeritus Titles, and Reappointment of Regular Clinical Faculty as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved December 7, 1989, by the Hospitals Board be ratified.
February 2, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment

Name: CHARLES V. MORR
Title: Professor (The Carl E. Haas Chair in Food Industries)
Department: Food Science and Technology
Effective: January 1, 1990
Salary: $90,000.00
Present Position: Stender Professor, Department of Food Science, Clemson University

Education: 1952, B.S., The Ohio State University
1955, M.S., The Ohio State University
1959, Ph.D., The Ohio State University

Experience:
1978 - Present Stender Professor, Department of Food Science, Clemson University
1976 - 1978 Professor and Chairman, Departments of Food and Nutrition (College of Home Economics) and Food Technology (College of Agricultural Sciences), Texas Tech University
1973 - 1976 Director, Protein Research, Ralston Purina Company, St. Louis, MO
1964 - 1973 Assistant Professor, Associate Professor, and Professor, Department of Food Science and Nutrition, University of Minnesota
1961 - 1964 Assistant Professor and Research Associate, Department of Dairy Technology, The Ohio State University

Reappointment of Principal Administrative Official

FRANCIS E. HAZARD, Dean/Director of the Marion Campus, effective February 1, 1990, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

Appointment of Chairperson of Department and Director of School

January 1, 1990 through September 30, 1990
Botany Ralph E. J. Boerner*

January 1, 1990 through June 30, 1993
School of Natural Resources Mohan K. Wali

February 1, 1990 through January 31, 1991
Anthropology Paul W. Sciulli*

*Acting Chairperson
February 2, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Reappointment of Chairperson of Department

July 1, 1990 through June 30, 1992

Veterinary Anatomy and Cellular Biology

James R. Blakeslee, Jr.

Leaves of Absence Without Salary

CHUNG-MIN CHEN, Chairperson and Associate Professor, Department of Anthropology, effective February 1, 1990, through January 31, 1991, to serve as the Director of the Ohio Office in the East and Southeast Pacific Region.

ROBERT D. COTTRELL, Professor, Department of French and Italian, effective Spring Quarter 1990, to accept the Talbot Professorship at the University of Virginia.

JOHN S. HILL, Assistant Professor, Department of History, effective Winter Quarter 1990, to enhance research productivity.

JOHN B. HILLAS, Assistant Professor, Department of Economics, effective Winter Quarter and Spring Quarter 1990, for personal reasons.

MARITA KAW, Assistant Professor, Department of Political Science, effective Winter Quarter 1990, to enable her access to materials at the University of California at Los Angeles for her research.

JUDITH A. MAXWELL, Assistant Professor, School of Natural Resources, effective January 25, 1990, through December 31, 1990, to assist the Alaska Department of Fish and Game in organizing and managing the restoration activities for the Exxon Valdez oil spill.

ROBERT D. VUYOSEVICH, Assistant Professor, Department of Architecture, effective Winter Quarter 1990, for personal reasons.

Leave of Absence Without Salary--Continuation

VLADIMIR E. BONDBYEV, Professor, Department of Chemistry, effective Winter Quarter, Spring Quarter and Autumn Quarter 1990, to continue in the Department of Chemistry at the Technical University in Munich.

Professional Improvement Leave--Change in Dates

CIRIYAM JAYAPRAKASH, Professor, Department of Physics, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

Emeritus Titles

JAMES J. BUFFER, JR., Department of Educational Studies: Humanities, Science, Technological, and Vocational, with the title Professor Emeritus, effective January 1, 1990.

GORDON K. GRIGSBY, Department of English, with the title Professor Emeritus, effective January 1, 1990.
February 2, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

RICHARD H. KEATES, Department of Ophthalmology, with the title Professor Emeritus, effective January 1, 1990.

EMANUEL D. RUDOLPH, Department of Botany, with the title Professor Emeritus, effective January 1, 1990.

THEODORE D. SOKOLOSKI, Department of Pharmacy, with the title Professor Emeritus, effective January 1, 1990.

PAUL S. METZGER, Department of Internal Medicine, with the title Clinical Professor Emeritus, effective March 1, 1990.

Reappointment of College of Medicine Regular Clinical Faculty

JANE F. DONAT, Associate Professor, Pediatrics, effective 1/1/91

Medical Staff--Appointments

JAMES M. COULTER, M.D., Attending Staff, Family Medicine
RONALD A. MEZGER, M.D., Attending Staff, Family Medicine
DAVID H. PRESCOTT, M.D., Attending Staff, Family Medicine
LINDA C. STONE, M.D., Attending Staff, Family Medicine

RONALD C. VAN BUREN, M.D., Attending Staff, Family Medicine
DAVID E. STANLEY, M.D., Attending Staff, Preventive Medicine

RODNEY V. POZDERAC, M.D., Attending Staff, Division of Nuclear Medicine

JAMES C. TOBER, M.D., Limited Staff, Division of General Surgery

MICHAEL T. STECHISON, M.D., Attending Staff, Division of Neurosurgery

Medical Staff--Reappointments

GARY C. REID, M.D., Courtesy Staff, Obstetrics and Gynecology

JAMES W. SIMON, M.D., Courtesy Staff, Division of Urology

CYNTHIA A. THORNE, M.D., Courtesy Staff, Pediatrics

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
February 2, 1990 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM

Resolution No. 90-72

Synopsis: The Academic Affairs Committee recommended the approval of Resolutions in Memoriam for Wiley L. Forman, Stanley J. Kahrl, and James D. Taylor.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Wiley L. Forman

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 7, 1989, of Wiley L. Forman, M.D., Clinical Professor Emeritus in the Department of Internal Medicine.

Dr. Forman was born October 10, 1910, in Mason County, Kentucky. He earned his A.B. degree from the University of Kentucky in June 1931, and his M.D. degree from Vanderbilt University in Nashville, Tennessee, in 1937.

Following graduation from medical school, Dr. Forman spent one year in internship training at Cleveland City Hospital, followed by his residency training at the same institution. He returned to Vanderbilt University for a final year of residency training, which was completed in 1940.

He was appointed to the clinical faculty in the Department of Internal Medicine at The Ohio State University in 1940. He held the rank of Clinical Assistant Professor. Over the course of his many years on the faculty, Dr. Forman was subsequently promoted twice, finally to the rank of Clinical Professor of Medicine in June 1965. He served in this capacity until he retired from the faculty after forty years of devoted service with the University and was named Clinical Professor Emeritus.

Dr. Forman was a member of the American Medical Association, and he was also a Fellow in the American College of Physicians. He was further distinguished by being inducted into Alpha Omega Alpha, the medical honorary society.

From 1942 until 1946, Dr. Forman served in the U.S. Army, where he held the rank of Major. He later established an active medical practice in Central Ohio.

Dr. Forman will long be remembered by his patients and friends as a compassionate, caring physician who was deeply devoted to his patients and their well-being.

On behalf of the University community, the Board of Trustees expresses to the family of Dr. Forman its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's sense of loss that the family, the University, and the many friends and associates have sustained.

Stanley J. Kahrl

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 3, 1989, of Stanley J. Kahrl, Professor in the Department of English.
RESOLUTIONS IN MEMORIAM (contd)

Stanley J. Kahrl (contd)

Professor Kahrl was born June 30, 1931, in Mt. Vernon, Ohio. He began his affiliation with The Ohio State University in 1969, serving as the first Director of the Center for Medieval and Renaissance Studies until 1978, and as Associate Dean of the College of Humanities from 1970 to 1972. He received his B.A. from Harvard in 1953, his M.A. from Cambridge University in 1962, and his doctorate from Harvard in 1962. He was a veteran of the United States Navy.

Dr. Kahrl specialized in medieval English language and literature, Chaucer, Shakespeare, and war literature as a genre. At Ohio State, Professor Kahrl served on the President's Commission on Affirmative Action, on the Provost's Task Force on Minority Recruitment, and in the University Senate. He was very active in the Columbus community and served on the boards of trustees of Player's Theatre and the Columbus Academy, and on the Vestry of St. Stephen's Episcopal Church. Dr. Kahrl was the author of five books and dozens of articles. One of his recent notable activities was to organize a contingent of Ohio State students to take part in the film "Glory" about the first Black regiment in the Union Army during the Civil War. He was well respected as a gentleman, scholar, and teacher.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

James D. Taylor

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on October 27, 1989, of James D. Taylor, Instructor Emeritus of the Ohio Cooperative Extension Service.

Mr. Taylor was born February 16, 1917, in Sawyer, Kentucky. He served three years in the Army Air Force during World War II as a link Trainer Instructor in which he helped train pilots at bases in eight states. He received his B.S. in Agricultural Education from Berea College, Kentucky, in 1948. He became a 4-H youth assistant in Des Moines, Iowa, for seven months; worked as an Extension Director in Jefferson, Iowa, and as a Veterans On-The-Farm Training Instructor. In 1952, he became the Vocational Agricultural Instructor in Henry, Iowa.

Mr. Taylor began his extension experience in Ohio when he joined the faculty at The Ohio State University in 1956 as an Assistant County Agent in charge of Farm and Home Development in Mercer County. In 1957, he moved to Fairfield County as an Agricultural Extension Agent and continued in this position until his retirement in 1963. He found time to attended graduate school at Iowa State University, Colorado State University, and The Ohio State University.

He was a member and elder of First Presbyterian Church, a member of the National Audubon Society, Farm Bureau Council, past member of Lancaster Kiwanis Club, Carroll Senior Citizens, a founder of Farmers Market, and he attended many extension conferences throughout his association with the Ohio Cooperative Extension Service.

Mr. Taylor's contributions in providing excellent extension educational programs during his career earned him the respect and admiration of his coworkers and many thousands of Ohio citizens throughout the length and breadth of Fairfield County.
RESOLUTIONS IN MEMORIAM (contd)

James D. Taylor (contd)

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Mr. Taylor. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Amb. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

At the meeting this morning, Jim Nichols was present with Dr. Mary Haldane and, of course, the subject brought up was how to expedite the applications of loans for graduate students. Due to various delays, numerous phone calls, and the computers -- although they are helpful, sometimes they break down -- it takes from three to six months before the students can ever obtain financial aid. How to amend this situation? It is a very, very difficult one. We must understand that the office is staffed by mostly students, so you don't have experienced personnel in processing these loans. Jim tells me that everything possible is being done and he hopes that we will be able to process these loans within a period of three months. I question the time element of it, because if we look at our banking institutions, one of their big bottlenecks is repayment of loans or processing loans. It is computerized and that has helped a lot, but there is still a delay.

Jim is here, maybe he can expound on what we are saying. Along with that, David Straub said the same thing. He came to the meeting with the hope that we could expedite the application of loans to these Ohio State students in all quarters. It seems that some quarters are more difficult than others. There is a tremendous bottleneck -- it is just very difficult. I know the office is working hard and we have tremendous hope that it will be expedited.

Mr. Teaford:

I just want to add one thing that Jim Nichols did indicate to us. A plan is now in place which will reduce the average time for student loans from approximately fourteen to sixteen weeks now, to three or four weeks. He has every confidence that they are going to be able to accomplish that. So I think that is a spectacular promise which I hope we can fulfill.

--0--
February 2, 1990 meeting, Board of Trustees

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

Yesterday afternoon, the Fiscal Affairs Committee met to hear a status report on the Ramada Hotel from Mr. Nichols, and to review the 1988-89 financial report and comments from the independent auditors, Deloit Touche and Company. The Committee members also met privately with the external auditors, and found no issues of concern which are not being properly addressed by the University administration.

This morning, Mr. Ihrig presented the Second Quarter Report of the 1989-90 Current Funds Budget which shows a net reduction in resources of $110,000.00 and a net reduction in estimated expenditures of $1.3 million from the budget passed in July. He also reported that enrollment targets on the Columbus campus for Autumn Quarter 1990 are set at 53,401 students, of which 6,300 are entering freshmen.

(See Appendix XXXXV for The Ohio State University 1989-90 Current Funds Budget, 2nd Quarter Report, page 743.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 90-73

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summaries for November and December 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the months of November and December 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

674
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR NOVEMBER 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>85</td>
<td>$8,100,313.66</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>58</td>
<td>$860,866.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>143</strong></td>
<td><strong>$8,961,179.66</strong></td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The J. T. "Stubby" Parker Chair in Dairy Foods Fund (Establishment of a chair) $900,000.00
- James E. Chapman - Baker & Hostetler Law Library Fund (College of Law) $500,000.00
- The Buckeye Pro-Am Golf Scholarship Fund (Scholarships for student athletes who are members of the men's and women's varsity golf teams) $250,000.00
- "Someone Cares" Mansfield Campus Scholarship Fund for Women (Scholarships to worthy and needy women who attend Mansfield Campus) $100,000.00
- The Paul C. and Edna H. Warner Endowment Fund for Sustainable Agriculture (Support research in sustainable agriculture) $100,000.00
- The Thomas B. Kyle Scholarship Fund in Horticulture (Scholarships) $42,744.50
- The Gwen Moody Harre Endowed Fund for Physical Therapy (Scholarships - Physical Therapy Division) $42,000.00
- The Frank W. Hale, Jr., Endowed Scholarship (Scholarships - minority students from the Columbus and Franklin County areas) $31,318.00
- The John W. Paynter Honors Scholarship Fund in the College of Business (Scholarships) $28,000.00
- Butler County Cooperative Extension Endowment Fund (Support the Butler County Cooperative Extension program) $25,000.00
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR NOVEMBER 1989 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

Rubbermaid Incorporated Scholarship Endowment Fund
(Scholarship - Agricultural Technical Institute) $ 25,000.00

SUMMARY FOR DECEMBER 1989

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Foundation</td>
<td>82</td>
<td>$6,713,850.68</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>38</td>
<td>$ 211,180.00</td>
</tr>
<tr>
<td>Total</td>
<td>120</td>
<td>$6,925,030.68</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

Mary E. Border Ohio 4-H Scholarship Fund
(Scholarships for students with a background in 4-H work as a club member or adviser) $ 20,000.00

The Cecil and Eloise Robinson Agricultural Engineering Endowment Fund
(Provide program support) $ 20,000.00

The Helen, Joseph, Lynne, and Steve Skilken Athletic Scholarship Fund
(Scholarships for members of the men’s intercollegiate varsity swimming and diving team) $ 20,000.00

The Gary J. Nicholson Memorial Scholarship in Horticulture
(Scholarships to students in horticulture with floriculture marketing interests) $ 15,035.00

Francille M. Firebaugh Study Abroad Scholarship Fund
(Scholarships) $ 15,000.00

The Alpha and Paul E. Haffey Scholarship Endowment
(Scholarships - Colleges of Agriculture and Human Ecology) $ 15,000.00

676
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR DECEMBER 1989 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

Dr. Samuel and Rosa Lobe Scholarship Fund
(Scholarships to deserving medical students) $ 15,000.00

Adrienne A. and Marvin R. Zahniser Scholarship Fund
(Scholarships to students entering their senior
year who are majoring in History or Religious
Studies) $ 10,000.00

Change of Name and Description of Named Fund

From: The Richard R. Medhurst Scholarship in Social Welfare
To: Richard R. Medhurst & Genevieve H. Medhurst Scholarship in Social Welfare

Change in Description of Named Funds

The All American Youth Horse Show Endowment Fund
The Baker & Hostetler Law Library and Building Fund
Edward Montgomery, Jr., Scholarship Fund
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Federal Research Contracts/Grants

$1,663,425.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Acquired Immunodeficiency Syndrome Clinical Study Group, Department of Internal Medicine (R. J. Fass), 1 September 1989 through 31 August 1990. (Project 766341 - Continuation)

$1,280,000.00 - National Aeronautics and Space Administration, Washington, D.C., A Center for the Commercial Development of Space: Real-Time Satellite Mapping, Center for Mapping (J. D. Bossler), Department of Electrical Engineering (K. L. Boyer), Department of Civil Engineering (F. C. Hadipriono, M. R. McCord, and T. H. Wu), Department of Geodetic Science and Surveying (J. C. Loon and A. F. Schenk), Department of Geography (H. J. Moellering), Department of Geology and Mineralogy (D. E. Pride), and School of Natural Resources (C. D. Tomlin), 1 September 1989 through 31 August 1990. (Project 765707 - Continuation)


$257,200.00 - National Science Foundation, Washington, D.C., Graduate Research Fellowship Program, Graduate School Administration (R. A. Koenigsknecht), 1 June 1989 through 31 May 1994. (Project 767907 - New)

$230,697.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Rural Homelessness in Ohio: A Five-Year Replication Study, College of Social Work (B. Toomey and R. J. First), 30 September 1989 through 31 August 1990. (Project 767819 - New)

$200,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Design and Diagnosis Problem Solving with Multifunctional Technical Knowledge Bases, Department of Computer and Information Science (B. Chandrasekaran), 1 September 1989 through 31 March 1990. (Project 767812 - New)

$180,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, The Physics of Submicron Systems, Department of Physics (J. W. Wilkins), 1 October 1989 through 30 September 1990. (Project 767184 - Continuation)

$158,000.00 - National Science Foundation, Washington, D.C., Studies Involving Molecules and Intermediates of Theoretical Interest, Department of Chemistry (L. A. Paquette), 1 September 1990 through 31 August 1991. (Project 766349 - Continuation)

$150,000.00 - Department of Health and Human Services, Office of Human Development Services, Washington, D.C., Child Abuse and Neglect Interdisciplinary Training Program, Department of Educational Policy and Leadership (L. L. Cunningham), 1 September 1989 through 31 August 1990. (Project 766454 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$125,674.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., In Situ Laser Activation of Electrochemical Charge Transfer Kinetics, Department of Chemistry (R. L. McCreery), 1 December 1989 through 30 November 1990. (Project 766526 - Continuation)

$100,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Molecular Biology of the Extremely Thermophilic Archaeabacterium, Methanothermus fervidus, Department of Microbiology (J. N. Reeve), 1 October 1989 through 30 September 1990. (Project 765291 - Continuation)

$94,101.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Stromal Defects in Retrovirus-Induced Myelosuppression, Department of Veterinary Pathobiology (G. J. Kociba), 1 December 1989 through 30 November 1990. (Project 767232 - Continuation)

$92,735.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Substrate Recognition by Archaeabacterial tRNA Intron Processing Enzymes, Department of Microbiology (C. J. Daniels), 1 December 1989 through 30 November 1990. (Project 767661 - Continuation)

$85,969.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Conformational Peptides to Probe Immune Responses, Department of Obstetrics and Gynecology (P. T. Kaumaya), 1 September 1989 through 31 August 1990. (Project 767913 - New)

$83,000.00 - Department of Energy, Argonne, Illinois, Strongly Interacting Fermion Systems, Department of Physics (J. W. Wilkins), 15 November 1989 through 14 November 1990. (Project 766783 - Continuation)

$70,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, A Flexible Servomotor Driven Mechanical Press with Computer Control for Precision Forming, Department of Industrial and Systems Engineering (R. Shivpuri) and Engineering Experiment Station (T. Allan), 29 September 1989 through 30 June 1990. (Project 767840 - New)

$66,764.00 - National Science Foundation, Washington, D.C., Secondary Science Curriculum Modules for Global Change Education, Department of Educational Studies: Humanities, Science, Technological, and Vocational (V. J. Mayer), School of Natural Resources (R. W. Fortner), and Byrd Polar Research Center (D. H. Elliot), 1 November 1989 through 31 October 1990. (Project 767937 - New)


$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (C. Jayaprakash), 1 January 1990 through 31 December 1990. (Project 764850 - Continuation)
Federal Research Contracts/Grants (contd)

$54,161.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Proof-of-Feasibility Development and Analysis of Advanced Circuit Architectures for Intelligent Processing in Communication Systems, Department of Electrical Engineering (S. Bibyk), 3 October 1989 through 2 October 1990. (Project 767914 - New)

$52,000.00 - National Science Foundation, Washington, D.C., Physical Studies of Xanthine Oxidase and Arsenite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 November 1989 through 31 October 1990. (Project 767140 - Continuation)

$51,094.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 October 1989 through 30 April 1990. (Project 766854 - Continuation)

$48,000.00 - National Science Foundation, Washington, D.C., Investigation of Viscous Flow in a Hele-Shaw Cell, Department of Mathematics (S. A. Tanveer), 16 August 1989 through 31 March 1991. (Project 767908 - New)

$40,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Compact Range and Radar Cross Section Studies, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside, L. Peters, Jr., and A. K. Dominek), 1 September 1989 through 31 January 1990. (Project 761608 - Continuation)

$36,798.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Microstructural Characterization of Intermetallic Matrix Ceramic Particulate Composites, Department of Materials Science and Engineering (W. A. T. Clark), 1 October 1989 through 23 July 1990. (Project 767100 - Continuation)


$29,672.00 - National Science Foundation, Washington, D.C., Knowledge-Based Simultaneous Engineering for Mechanical Design Using Design Compatibility Analysis, Department of Mechanical Engineering (K. Ishii), 1 October 1989 through 31 January 1991. (Project 766975 - Continuation)


$23,000.00 - National Science Foundation, Washington, D.C., Mathematics: Cohomology of Arithmetic Groups, Department of Mathematics (A. D. Ash), 1 June 1990 through 31 May 1991. (Project 767931 - New)

680
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


TOTAL - FEDERAL AWARDS $5,731,710.00

State of Ohio Research Contracts/Grants


$135,910.00 - State of Ohio, Department of Education, Columbus, Ohio, Reading Recovery Project, 1989-1990, Department of Educational Theory and Practice (G. S. Pinnell, D. Deford, and C. A. Lyons), 1 October 1989 through 30 September 1990.  (Project 767218 - Continuation)

$52,281.00 - State of Ohio, Board of Regents, Columbus, Ohio, Teacher Training and Curriculum Development Using Remote Sensing and On-Line Databases, School of Natural Resources (R. W. Fortner), 15 September 1989 through 31 December 1990.  (Project 767874 - New)

$50,753.00 - State of Ohio, Board of Regents, Columbus, Ohio, Technology-Informed Mathematics Education for Underrepresented Students (TIME for US), Academic Affairs Administration (J. J. Bishop), 15 September 1989 through 31 December 1990.  (Project 767934 - New)

$40,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Evaluation of Federal Research Funding in the State of Ohio, Department of Physics (W. F. Palmer), 1 September 1989 through 30 June 1990.  (Project 767392 - Continuation)

$20,000.00 - State of Ohio, Environmental Protection Agency, Columbus, Ohio, An Assessment of the Effectiveness of Various Methods Used to Delineate Wellhead Protection Areas for Several Hydrogeologic Settings in Ohio, Department of Geology and Mineralogy (E. S. Bair), 1 July 1989 through 30 September 1990.  (Project 767856 - Continuation)

$5,718.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Client Outcome Interviews: OSU Study of RWJ Community Treatment Teams, College of Social Work (R. J. First), 1 July 1989 through 31 December 1989.  (Project 767891 - Continuation)

$1,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Workshops for Teachers on Humane Care and Use of Animals, Office of University Laboratory Animal Resources (J. F. Cornhill), 20 September 1989 through 31 December 1990.  (Project 767876 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$1,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, The Effect of the Computer on the Process of Music Composition: Historical, Esthetic, and Philosophical Considerations, School of Music (T. Wells), 1 November 1989 through 2 May 1990. (Project 767888 - New)

TOTAL - STATE OF OHIO AWARDS $ 556,662.00

Industrial Research Contracts/Grants


$76,915.00 - NeoRx Corporation, Seattle, Washington, Pseudomonas aeruginosa Exotoxin A: Genetic Reconstruction, Analysis, and Production, Department of Microbiology (D. R. Galloway), 1 August 1989 through 31 July 1990. (Project 767003 - Continuation)

$65,789.00 - Premier Peat Moss, Ltd., Quebec, Canada, Natural Suppressiveness of Sphagnum Peat to Pythium and Rhizoctonia Diseases, Department of Plant Pathology - OARDC (H. A. J. Hoitink), 1 July 1989 through 30 June 1992. (Project 767869 - New)

$30,000.00 - Hoffmann-La Roche, Inc., Nutley, New Jersey, The Recommended Dietary Allowance for Ascorbic Acid in Salmonoid Fish, School of Natural Resources and Department of Natural Resources - OARDC (C. F. Cole), 1 September 1989 through 31 August 1990. (Project 767929 - New)

$29,926.00 - Zoecon Corporation, Dallas, Texas, Oral Use of Low Dose Human Alpha Interferons for the Treatment of Feline Leukemia Virus (FeLV) Infections in Cats, Department of Veterinary Pathobiology (G. J. Kociba), 15 December 1989 through 14 December 1990. (Project 767906 - New)

$22,860.00 - E. R. Squibb and Sons, Princeton, New Jersey, Placebo-Controlled Trial of Various Doses of Zofenopril Administered Twice Daily with Hydrochlorothiazide in Mild to Moderate Hypertension, Department of Family Medicine (R. M. Guthrie), 15 November 1989 through 15 August 1990. (Project 767923 - New)

$20,000.00 - General Electric Company, Schenectady, New York, Discrimination of Defects in Thin Walled Tubing Using Ultra-sonic Spectroscopy, Department of Welding Engineering (L. Adler), 1 October 1989 through 31 March 1990. (Project 767933 - New)

$15,237.00 - Research Biochemicals Incorporated, Natick, Massachusetts, Boron-Containing Isoquinolines and Benzodiazepines for Targeting Glioma Cells, College of Pharmacy (A. H. Soloway) and Department of Pathology (R. F. Barth), 16 August 1989 through 1 March 1990. (Project 767939 - New)

$13,975.16 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1989 through 31 December 1989. (Project 762165 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$10,947.50 - Miles Pharmaceutical, Elkhart, Indiana, Evaluation of Ex-cyte VLE as a Serum Replacement for the Culture of Insect Cell Lines, Department of Entomology (W. F. Hink), 15 October 1989 through 28 February 1990. (Project 767905 - New)

$9,271.00 - Ross Laboratories, Columbus, Ohio, Treatment Studies in Germfree Piglets for Campylobacter pylori Infection, Department of Veterinary Pathobiology (G. S. Krakowka), 1 October 1989 through 31 August 1990. (Project 767916 - New)

$7,520.00 - Roerig/Pfizer, New York, New York, Open, Comparative, Multicentered Study of Fluconazole Versus Amphotericin B in the Treatment of Candidemia in Non-Neutropenic Patients, Department of Internal Medicine (B. C. Fox), 2 October 1989 through 1 April 1991. (Project 767836 - New)

$6,000.00 - Agway, Inc., Syracuse, New York, Effect of Consumption of Selenium and Vitamin E on the Flux of -Tocopherol Between Plasma and Cells, Department of Dairy Science - OARDC (W. P. Weiss), 1 November 1989 through 30 October 1990. (Project 767935 - New)

$5,600.00 - Pitman-Moore, Inc., Terre Haute, Indiana, BACIFERM's Effect, as Compared to Other Feed Grade Antibiotics or No Antibiotics in the Diet, on Feed Efficiency and Rate of Gain in Swine, Department of Animal Science - OARDC and Department of Animal Science (K. M. Irvin), 1 November 1989 through 31 October 1990. (Project 767915 - New)


$3,000.00 - Stuart Pharmaceuticals, Wilmington, Delaware, A Multicenter Comparison of Zoladex Depot and Surgical Castration in Metastatic Prostate Carcinoma, Department of Surgery (J. R. Drago), 1 September 1989 through 30 June 1990. (Project 765067 - Continuation)

$300.00 - Miles Pharmaceutical, Berkeley, California, Nitrosothiols as Hypotensive Agents, Department of Biochemistry (G. E. Means), 1 December 1989 through 31 May 1990. (Project 767938 - New)

Equipment - Prime Computer, Inc., Bedford, Massachusetts, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 August 1989 through 31 July 1990. (Project 766219 - Continuation) (Approximate Dollar Value = $180,000)


Personnel Services - TYDAC Technologies Corporation, Ottawa, Ontario, Canada, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 September 1989 through 31 August 1990. (Project 766219 - Continuation) (Approximate Dollar Value = $25,000)

TOTAL - INDUSTRIAL AWARDS $ 821,340.66

683
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants

$330,189.00 - University of Chicago, Argonne, Illinois, Optical Readout System for the ZEUS Barrel Calorimeter, Department of Physics (T. Y. Ling and T. A. Romanowski), 1 January 1990 through 31 January 1991. (Project 767107 - Continuation)

$100,000.00 - Gas Research Institute, Chicago, Illinois, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 January 1989 through 31 December 1989. (Project 766219 - Continuation)

$90,832.00 - Clemson University, Clemson, South Carolina, Project for Prevention of High School Dropout Through Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 August 1989 through 31 January 1991. (Project 767878 - New)

$59,920.00 - The University of Iowa, Iowa City, Iowa, Cystic Fibrosis Research Center: Membrane Biology of Cystic Fibrosis, Department of Zoology (D. L. Stetson), 30 September 1989 through 29 September 1990. (Project 767188 - Continuation)

$57,000.00 - Ohio State Anesthesia Research Foundation, Columbus, Ohio, Academic Support Program, Department of Anesthesiology (J. S. McDonald), 1 July 1989 through 30 June 1990. (Project 767927 - New)

$51,431.00 - Southern Regional Education Board, Atlanta, Georgia, Secondary School Dropout Prevention Demonstration Project, Center on Education and Training for Employment (R. D. Ryan), 1 September 1989 through 31 August 1990. (Project 767868 - Continuation)


$40,000.00 - The Andrew W. Mellon Foundation, New York, New York, LabanWriter Software Development, Department of Dance (L. Venable), 1 July 1989 through 30 June 1991. (Project 767899 - New)

$40,000.00 - University of Nebraska, Lincoln, Nebraska, A Research/Extension Awareness Program for Low-Input Agriculture in Ohio, Department of Agronomy - OARDC and Department of Agronomy (D. J. Eckert and R. Lal), 1 October 1989 through 30 September 1990. (Project 767127 - Continuation)

$32,000.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 June 1989 through 30 September 1995. (Project 766536 - Continuation)

$24,700.00 - Ohio Floriculture Foundation, Columbus, Ohio, Water Management to Control Soilborne Diseases and Fungus Gnats in Ebb and Flow Production Systems, Department of Plant Pathology - OARDC (H. A. J. Holtink), Department of Entomology - OARDC (R. K. Lindquist), Department of Agricultural Engineering - OARDC (R. P. Fynn), and Horticultural Industries Technology (R. W. McMahon), 1 January 1990 through 1 January 1991. (Project 767922 - New)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$22,887.00 - Upper Arlington City Schools, Upper Arlington, Ohio, Upper Arlington-Ohio State Middle School Project, School of Health, Physical Education, and Recreation (M. O'Sullivan), 29 August 1989 through 7 June 1990. (Project 767892 - New)

$20,000.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1989 through 30 September 1990. (Project 767544 - Continuation)

$15,052.00 - Ohio Special Olympics, Inc., Columbus, Ohio, Ohio Special Olympics Practicum in Public Relations and Media, School of Health, Physical Education, and Recreation (W. A. Sutton), 1 September 1989 through 31 August 1990. (Project 767866 - New)

$10,000.00 - The Columbus Foundation, Columbus, Ohio, Planning, Production, and Follow-Up of the Sixth Alfred Willson Conference, 1990, on Problem Prevention in Children and Youth, Department of Educational Policy and Leadership (L. L. Cunningham), 1 October 1989 through 30 September 1991. (Project 767930 - New)

$9,878.00 - American Farmland Trust, Washington, D.C., Farmland Preservation Act Usage Study, Cooperative Extension State Operations and Department of Natural Resources - OARDC (J. D. Rohrer), 1 October 1989 through 1 December 1990. (Project 767928 - New)

$8,545.00 - Morris Animal Foundation, Englewood Colorado, Opioid Messenger Function in Neuromodulation of Equine Intestinal Motility: Role of Met-Enkephalin in the Carbohydrate Induced Laminitis Model, Department of Veterinary Anatomy and Cellular Biology (J. Masty), 1 September 1989 through 31 August 1990. (Project 767912 - New)

$7,312.00 - University of Maine at Orono, Orono, Maine, The Use and Value of Geographic Information, Department of Natural Resources - OARDC (E. F. Epstein), 1 August 1989 through 15 September 1989. (Project 767921 - New)

$6,670.00 - Morris Animal Foundation, Englewood, Colorado, Hypertonic Saline Resuscitation in Gastric Dilatation-Displacement (GDD): A Clinical Trial, Department of Veterinary Clinical Sciences (W. W. Muir, III), 1 September 1989 through 31 August 1990. (Project 767911 - New)

$4,830.00 - The Devereux Foundation, Devon, Pennsylvania, School Psychology Research Assistant Support, Department of Education Services and Research (J. Naglieri), 1 October 1989 through 30 June 1990. (Project 767925 - New)

$4,000.00 - Institute of International Education, New York, New York, Kerala Forest Research Institute Fellowship, Department of Agricultural Economics and Rural Sociology (F. J. Hitzhusen), 18 October 1989 through 17 October 1990. (Project 767932 - New)

$4,000.00 - Medical College of Ohio, Toledo, Ohio, Agronomic Effectiveness of Kiln-Dust Stabilized Municipal Sewage Sludge, Department of Agronomy - OARDC and Department of Agronomy (T. J. Logan), 15 March 1989 through 28 February 1990. (Project 766198 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$3,797.00 - Vanguard-Sentinel Joint Vocational School Board of Education, Fremont, Ohio, Factors That Influence a Student Not to Enter Into a High School Vocational Curriculum, Department of Agricultural Education (R. K. Barrick), 1 August 1989 through 30 April 1990. (Project 767883 - New)

$3,500.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (J. F. Disinger), 1 July 1989 through 30 June 1990. (Project 765812 - Continuation)


Purchased Services - Wayne State University, Detroit, Michigan, Role of Cricopharyngeal Myotomy and the Treatment of Dysphagia Following Major Head and Neck Surgery, Department of Otolaryngology (D. E. Schuller), 1 June 1989 through 31 May 1990. (Project 767409 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $ 990,601.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$40,000.00 - additional budget from the Ohio Department of Transportation, Columbus, Ohio, for "Evaluation of Remedial Measures for Embankment Failures," under the direction of the department of Civil Engineering for the period September 1, 1988 through August 31, 1990. (529773, Ext. 1)

$35,690.00 - additional budget from the Ohio Department of Transportation, Columbus, Ohio, for "Refinement of Analytical Photogrammetric Techniques for Application in Transportation Surveys," under the direction of the Department of Geodetic Science for the period October 1, 1985 through September 30, 1990. (529688, Ext. 4)

$8,081.00 - additional budget from the Ohio Department of Transportation, Columbus, Ohio, for "A Study of Accident Experience in Construction and Maintenance Zones," under the direction of the Department of Civil Engineering for the period July 1, 1987 through May 1, 1990. (529732, Ext. 2)

TOTAL - STATE SPONSORED RESEARCH $ 83,771.00

Industrial and Other Sponsored Research and Development

$100,000.00 - from various industry for membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$100,000.00 - from General Electric, Cincinnati, Ohio, for "One-Twelfth Scale Ejector-Powered Simulator for the GE 90 Engine," under the direction of the Department of Aeronautical and Astronautical Engineering for the period November 15, 1989 through May 14, 1990. (312524)

$100,000.00 - from EMTEC, Kettering, Ohio, for "Development and Validation of a Model for Chemical Vapor Deposition (CVD) Processes," under the direction of the Department of Materials Science and Engineering for the period October 1, 1989 through September 30, 1991. (312523)

$80,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the Department of Electrical Engineering. (312884)

$72,500.00 - from various industry for associate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$48,537.00 - from AITRC, Columbus, Ohio, for "Partitioning Signature Files for Parallel Processing, Phase II," under the direction of the Department of Computer and Information Science for the period July 1, 1989 through June 30, 1990. (529823)

$48,176.00 - from ASME Gear Research Institute, Naperville, IL, for "Contact Analysis of Worm Gears," under the direction of the Department of Mechanical Engineering for the period September 1, 1989 through August 31, 1990. (529822)

$47,000.00 - from General Electric, Cincinnati, Ohio, for "Lufthansa Engine Test Cell Model Study #2," under the direction of the Department of Aeronautical and Astronautical Engineering for the period March 1, 1988 through December 31, 1989. (312449, Ext. 2)

$40,000.00 - from Edicon, Rochester, New York, for "Research and Development of Images System for Recognition of Fingerprints," under the direction of the department of Welding Engineering for the period October 1, 1987 through June 30, 1990. (529740, Ext. 2)

$30,000.00 - from various industry for fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station.

$29,198.00 - from Martin Marietta, Denver, Colorado, for "Design of a Dichroic Surface," under the direction of the Department of Electrical Engineering for the period November 15, 1989 through February 28, 1990. (312522).

$24,200.00 - from Mobil Research and Development Corp., Princeton, New Jersey, for "Catcracker: An Expert System Framework for Diagnosis in Fluid Catalytic Cracking Units," under the direction of the Department of Chemical Engineering for the period October 15, 1988 through December 30, 1990. (312484, Ext. 2)

$17,802.00 - from 26 sponsors of 39 development projects in three departments/research areas of the College.
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$15,182.00 - from Continental Insurance, Neptune, New Jersey, for "Hypertext Project," under the direction of the Department of Computer and Information Science for the period April 1, 1989 through June 30, 1990. (529799, Ext. 1)

$10,000.00 - from various industry for affiliate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station.

$9,500.00 - from UNOCAL Corp., Brea, California, for "Research on Transport of Heavy Crudes," under the direction of the Department of Chemical Engineering for the period November 1, 1989 through October 31, 1990. (529827)

$5,000.00 - from Battelle Memorial Institute, Columbus, Ohio, for "Numerical Calculations," under the direction of the Department of Engineering Mechanics for the period April 1, 1989 through December 31, 1989. (529800, Ext. 2)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 777,095.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The J. T. "Stubby" Parker Chair in Dairy Foods Fund

The J. T. "Stubby" Parker Chair in Dairy Foods Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Thomas L. Parker in memory of his father, J. T. "Stubby" Parker, whose life work was for the dairy industry. Many additional gifts were received from the dairy industry, alumni, faculty, and friends of the Department of Food Science and Technology.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be reinvested in the fund’s principal until the fund reaches $1,250,000. At that time, the annual income shall be used to support the work of a distinguished professor whose research, teaching, and public service focus on stimulating new research into the chemical, microbial and/or engineering phases of the dairy foods industry. The chair shall be appointed and shall serve at the discretion of the Vice President for Agricultural Administration in consultation with the Chairperson of the Department of Food Science and Technology.

In the event that this position should remain vacant for more than one year, then the income from this fund shall be returned to the fund’s principal. Additionally, an appropriate portion of the income and/or unused income accrued in the endowment interest account during the previous chairholder’s tenure may be used to provide start-up funds for the new chair recipient.
Establishment of Named Funds (contd)

The J. T. "Stubby" Parker Chair in Dairy Foods Fund (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use directed to the betterment of the dairy foods industry shall be determined by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

James E. Chapman - Baker & Hostetler Law Library Fund

The James E. Chapman - Baker & Hostetler Law Library Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from James E. Chapman (B.S.Bus.Adm. '53, J.D. '54) of Cleveland, Ohio, and his friends.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used at the discretion of the Dean of the College of Law, with preference being given to the Law Library.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Buckeye Pro-Am Golf Scholarship Fund

The Buckeye Pro-Am Golf Scholarship Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni and friends of the Ohio State men's and women's varsity golf program.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to supplement the grant-in-aid scholarships of qualified student athletes pursuing undergraduate degrees at The Ohio State University who are members of the men's and women's varsity golf teams. Recipients shall be selected by the Director of Athletics in consultation with the men's and women's golf coaches and the University Committee on Student Financial Aid.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Buckeye Pro-Am Golf Scholarship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Director of Athletics in order to carry out the desire of the donors.

"Someone Cares" Mansfield Campus Scholarship Fund for Women

The "Someone Cares" Mansfield Campus Scholarship Fund for Women was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from an anonymous donor.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to worthy and needy women, particularly mothers who work outside the home, who attend The Ohio State University Mansfield Campus. Scholarship recipients shall be chosen by the Dean/Director of the Mansfield Campus in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean/Director of the Mansfield Campus in order to carry out the desire of the donor.

NOTE: The donor wishes to remain anonymous and has requested no publicity or news releases in regard to the establishment of this fund.

The Paul C. and Edna H. Warner Endowment Fund for Sustainable Agriculture

The Paul C. and Edna H. Warner Endowment Fund for Sustainable Agriculture was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from E. Jack Warner, M.D. (B.A. '52, M.D. '55) and Louise Oman Warner, M.D. (B.S. '51, M.D. '55) of Ashville, Ohio, to honor the memory of Mr. Warner's parents, Paul C. Warner (B.S.Agr. '18) and Edna H. Warner.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Paul C. and Edna H. Warner Endowment Fund for Sustainable Agriculture (contd)

The annual income shall be used to support research in sustainable agriculture. Project recommendations shall rest with the departmental chairs of Agronomy and Entomology in concert with the Director of the Ohio Agricultural Research and Development Center. Suggestions from the donors are welcome and final approval must come from the Vice President and Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

The Thomas B. Kyle Scholarship Fund in Horticulture

The Thomas B. Kyle Scholarship Fund in Horticulture was established February 2, 1990, by the Board of Trustees of The Ohio State University, with a gift to The Ohio State University Development Fund from Thomas B. Kyle (B.S.Agr. '29), founder of the Spring Hill Nurseries Company in Tipp City, Ohio. Since his graduation from The Ohio State University, Mr. Kyle has been a pioneer and international leader in the mail-order marketing of nursery stock.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more undergraduate scholarships for high-quality students who are seriously interested in career opportunities within the areas of business and industry, research, and/or education involving ornamental horticulture, nursery management, landscape contracting and/or marketing of horticulture related products.

Selection of recipients shall be made by the Chairperson of the Department of Horticulture and selected faculty from ornamental horticulture in consultation with the Assistant Dean for Student Affairs in the College of Agriculture and the University Committee on Student Financial Aid. Insofar as practical, a member of the Kyle family may be involved in the selection of recipients.

It is the desire of the donor that this fund should benefit the University in perpetuity, and be used to attract outstanding high school students to the study of ornamental horticulture at The Ohio State University. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the funding of scholarships, programs, or projects which will enhance the Department of Horticulture at The Ohio State University.
Establishment of Named Funds (contd)

The Gwen Moody Harre Endowed Fund
for Physical Therapy

The Gwen Moody Harre Endowed Fund for Physical Therapy was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Gilbert A. Harre (B.S.Ed. '37).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Fifty percent (50%) of the annual income shall be used to provide one or more scholarships to students enrolled in the Physical Therapy Division of the School of Allied Medical Professions. Scholarship recipients shall be chosen by the Director of the Physical Therapy Division in consultation with the University Committee on Student Financial Aid. The remaining fifty percent (50%) of the annual income shall be added to the fund's principal.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Frank W. Hale, Jr., Endowed Scholarship

The Frank W. Hale, Jr., Endowed Scholarship was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from business associates, relatives and friends in honor of Dr. Frank W. Hale, Jr., Vice Provost and Professor Emeritus, who served The Ohio State University as Professor of Communication, Associate Dean of the Graduate School, Vice Provost of Minority Affairs, and Special Assistant to the President from 1971 to 1988.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to award one or more scholarships to minority students (African American, Hispanic, or Native American) who have displayed scholarship, leadership, integrity and have served the University by promoting a strong sense of racial awareness and/or advancement by their involvement in programs and activities that contribute to the development of opportunities and programs for minorities. The scholarship shall be awarded to high school seniors from the Columbus and Franklin County area. Award recipients shall be selected by the Office of Minority Affairs in consultation with the University Committee on Student Financial Aid from the pool of students participating in the Minority Scholars Program.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Frank W. Hale, Jr., Endowed Scholarship (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The John W. Paynter Honors Scholarship Fund
in The College of Business

The John W. Paynter Honors Scholarship Fund in the College of Business was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the Hudson-Webber Foundation and The Edward C. and Hazel L. Stephenson Foundation.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to undergraduate honors students in the College of Business. Criteria for selection shall include outstanding scholastic achievement. Preference shall be given to those students from the Metropolitan Detroit, Michigan, area. Selection of the scholarship recipients shall be made by the University Committee on Student Financial Aid in consultation with the Dean of the College of Business.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Butler County Cooperative Extension Endowment Fund

The Butler County Cooperative Extension Endowment Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Butler County Cooperative Extension Service.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support the Butler County Cooperative Extension program. The distribution and use of these funds shall be determined by recommendation from the Butler County Cooperative Extension Advisory Committee to the county chairperson of the Butler County Cooperative Extension Service, with final approval from the official who is responsible for the Ohio Cooperative Extension Service. These funds are subject to review by the University Internal Audit Department.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Butler County Cooperative Extension Endowment Fund (contd)

Should the Butler County Cooperative Extension office cease to exist, the Butler County Cooperative Extension Advisory Committee and/or its representative shall determine the future use and distribution of the fund's annual earnings by making appropriate recommendations to the official who is responsible for the Ohio Cooperative Extension Service. Additionally, the Butler County Cooperative Extension Advisory Committee shall have up to three years after the initial disbandment of the Butler County Extension office to make an official recommendation.

It is the desire of the donors that this fund should benefit the University and the Ohio Cooperative Extension Service in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income beyond the situation described in the preceding paragraph, then another use shall be designated by the Board of Trustees in consultation with the chief administrative official of the Ohio Cooperative Extension Service and the Butler County Advisory Committee or their representatives, in order to carry out the desire of the donors.

Rubbermaid Incorporated Scholarship Endowment Fund

The Rubbermaid Incorporated Scholarship Endowment Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with a gift to The Ohio State University Development Fund from Rubbermaid Incorporated.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students at the Agricultural Technical Institute who are interested in technologies leading to careers in the plastics industry. First preference shall be given to children of employees of Rubbermaid Incorporated. Children of company executives are ineligible for the scholarships, in accordance with the company's educational benefits policy.

A 2.50 grade point average is recommended for incoming recipients and a 2.50 grade point average must be maintained by returning recipients. The amount of each scholarship is not to exceed half of the annual tuition and fees. Scholarship recipients shall be chosen by the Agricultural Technical Institute's financial aid coordinator in consultation with the chairperson of engineering technologies, other appropriate faculty, and the University Committee on Student Financial Aid.

At such time as a formal technology or option related to the plastics industry is established at the Agricultural Technical Institute, students enrolled in that program shall be given preference over students in other programs. Until then, students in the Fluid Power Technology shall receive preference.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - December 1989

Federal Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Agency</th>
<th>Project Description</th>
<th>Dates</th>
<th>Project #</th>
</tr>
</thead>
<tbody>
<tr>
<td>$774,440.00</td>
<td>Department of Health and Human Services, National Institute on Aging, Bethesda, Maryland, NLS Resurvey</td>
<td>Older Male Survivors and Decedents' Widows, Center for Human Resource Research (H. S. Parnes)</td>
<td>1 December 1989 through 30 November 1990</td>
<td>767203 - Continuation</td>
</tr>
<tr>
<td>$655,673.00</td>
<td>Department of Health and Human Services, National Institute on Deafness and Other Communication Disorders, Bethesda, Maryland, Otitis Media with Effusion: Human Studies, Department of Otolaryngology (D. J. Lim)</td>
<td>1 December 1989 through 30 November 1990</td>
<td>760043 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$370,000.00</td>
<td>Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Services to Deaf-Blind Children and Youth -- Technical Assistance to States, Education Administration (K. D. Arnold)</td>
<td>1 October 1989 through 30 September 1990</td>
<td>767864 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$360,000.00</td>
<td>Department of the Navy, Office of Naval Research, Arlington, Virginia, Joint Services Electronics Program, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr., P. H. Pathak, E. H. Newman, R. T. Compton, and R. C. Chou)</td>
<td>1 October 1989 through 30 September 1990</td>
<td>767124 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$283,332.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Electromagnetic Properties of Material Coated Surfaces, ElectroScience Laboratory, Department of Electrical Engineering (A. K. Dominek, W. D. Burnside, and L. Peters, Jr.)</td>
<td>1 November 1989 through 31 October 1990</td>
<td>766822 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$283,103.00</td>
<td>Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen, and M. J. Tarr)</td>
<td>16 December 1985 through 15 December 1990</td>
<td>765188 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$185,812.00</td>
<td>Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Neurotransmitters and Inflammatory Mediators in Tooth Movement, Orthodontics (Z. Davidovitch)</td>
<td>1 December 1989 through 30 November 1990</td>
<td>767223 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$179,333.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Genetic and Molecular Studies of RNA Splicing, Department of Molecular Genetics (P. S. Perlman)</td>
<td>1 December 1989 through 30 November 1990</td>
<td>763452 - Continuation</td>
<td></td>
</tr>
<tr>
<td>$175,921.00</td>
<td>Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Novel Antineoplastic Agents from Higher Plants, College of Pharmacy (J. M. Cassady and R. W. Doskotch) and Department of Pathology (R. E. Stephens)</td>
<td>1 December 1989 through 30 November 1990</td>
<td>767168 - Continuation</td>
<td></td>
</tr>
</tbody>
</table>
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$173,379.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, General Clinical Research Center, Medicine Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1989 through 28 February 1990. (Project 761196 - Continuation)

$158,164.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Immunoprevention of Human T-Cell Leukemia Virus-I Infection, Department of Veterinary Pathobiology (R. G. Olsen and L. E. Mathes), 1 December 1989 through 30 November 1990. (Project 765057 - Continuation)

$149,023.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Optical Scattering Studies, ElectroScience Laboratory, Department of Electrical Engineering (S. A. Collins, Jr.), 1 October 1989 through 30 September 1990. (Project 764394 - Continuation)

$129,912.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Redox and Electron-Transfer Properties of Flavodoxins, Department of Biochemistry (R. P. Swenson), 1 December 1989 through 30 November 1990. (Project 767166 - Continuation)

$124,982.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Stereochemistry of Enzyme Reactions to Phosphorus, Department of Chemistry (M. D. Tsai), 1 December 1989 through 30 November 1990. (Project 762722 - Continuation)

$107,663.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Linking Maternal Employment and Child Care Arrangements to Child Development, Department of Sociology (T. L. Parcel), 1 December 1989 through 30 November 1990. (Project 767980 - Continuation)

$107,633.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Parental Occupations and Child Care Effects on Child Outcomes, Department of Sociology (E. G. Menaghan and T. L. Parcel), 1 December 1989 through 30 November 1990. (Project 767226 - New)

$106,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Derivatives of Boranes, Possible Metal Boride and Boron Nitride Precursors, Department of Chemistry (S. G. Shore), 1 February 1990 through 31 January 1991. (Project 766948 - Continuation)

$105,312.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Demodulation Processes in Auditory Perception, Division of Speech and Hearing Science (L. Feth), 1 December 1989 through 30 November 1990. (Project 767249 - Continuation)

$104,218.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, A Fundamental Investigation into the Joining of Advanced Light Materials, Department of Welding Engineering (W. A. Baeslack III and L. Adler), 1 April 1990 through 31 March 1991. (Project 766678 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$100,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Scatterer Modeling/Calibration Study (Big Ear Measurement Supplement), ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka and J. D. Young), 1 October 1989 through 30 September 1990. (Project 766957 - Continuation)

$96,000.00 - National Science Foundation, Washington, D.C., Structure and Dynamic Behavior of Selected Organolithium Compounds, Department of Chemistry (G. A. Fraenkel), 1 January 1990 through 31 December 1990. (Project 767225 - Continuation)

$90,276.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, A Study of DNA Intercalating Aromatic Amino Azides, Department of Chemistry (M. S. Platz), 1 December 1989 through 30 November 1990. (Project 765804 - Continuation)

$82,187.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Bone-Cement Interface Biomechanics, Department of Surgery (A. S. Litsky), 1 December 1989 through 30 November 1990. (Project 767202 - Continuation)

$74,677.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Precomplexation and Activation of Carbohydrate Phosphate Esters, Department of Chemistry (A. W. Czarnik), 1 March 1990 through 28 February 1991. (Project 766706 - Continuation)

$65,172.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Oxidate PMN/Periodontium Interaction in Oral Disease, Diagnostic Services (S. R. Mallery and C. M. Allen) and Department of Pathology (R. E. Stephens), 1 December 1989 through 30 November 1990. (Project 765142 - Continuation)

$65,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Studies of Nonlinear Dynamics of Fluid Systems, Department of Physics (C. D. Andereck), 1 December 1989 through 30 November 1990. (Project 767269 - Continuation)


$59,412.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Hypothalamic Neuronal Sensitivity in Pregnant Rats, Department of Physiology (J. A. Boulant and D. Christenson), 1 December 1989 through 30 November 1990. (Project 765130 - Continuation)

$52,766.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Cancer Education Program, Department of Surgery (W. B. Farrar) and Medicine Administration (C. B. Meleca), 29 September 1989 through 31 August 1990. (Project 767942 - Continuation)

$38,660.00 - National Science Foundation, Washington, D.C., Secular Climate and Atmospheric Circulation Fluctuations over the Atlantic Area, Department of Geography (J. C. Rogers), 1 November 1989 through 31 October 1990. (Project 767077 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$37,181.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Relegation for Decentralized Control, Department of Electrical Engineering (U. Ozguner), 1 March 1989 through 28 February 1990. (Project 767334 - Continuation)

$35,968.00 - Department of Health and Human Services, Centers for Disease Control, Atlanta, Georgia, Quantitative Measures of Wrist Motions, Department of Industrial and Systems Engineering (W. S. Marras), 1 January 1990 through 31 December 1990. (Project 767212 - Continuation)


$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: An Intelligent Planning Environment for Dimensional Inspection, Department of Mechanical Engineering (C. H. Menq), 11 January 1989 through 31 October 1990. (Project 767947 - New)


$12,110.00 - National Science Foundation, Washington, D.C., The Ecology and Conservation of Lion-Tailed Macaques in a South Indian Rainforest (Rupee), Department of Anthropology (F. E. Poirier), 15 November 1989 through 31 October 1990. (Project 767941 - New)

$9,000.00 - National Science Foundation, Washington, D.C., Mechanisms of Polycrystalline Strain Propagation: Controlled Orientations and Applied Stress Fields, Department of Materials Science and Engineering (W. A. T. Clark and R. H. Wagoner), 1 July 1989 through 30 June 1990. (Project 765832 - Continuation)

TOTAL - FEDERAL AWARDS $5,505,375.00

State of Ohio Research Contracts/Grants

$40,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Retention and Expansion of Existing Businesses, Cooperative Extension State Operations and Department of Agricultural Economics and Rural Sociology - OARDC (T. R. Smith), 1 July 1989 through 30 June 1990. (Project 765667 - Continuation)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$17,000.00 - State of Ohio, Environmental Protection Agency, Columbus, Ohio, An Assessment of the Effectiveness of Various Methods Used to Delineate Wellhead Protection Areas for Several Hydrogeologic Settings in Ohio, Department of Geology and Mineralogy (E. S. Bair), 1 July 1989 through 30 September 1990. (Project 767301 - Continuation)

$14,500.00 - State of Ohio, Department of Development, Columbus, Ohio, Ohio State University Institute for Japanese Studies, Department of Political Science (B. M. Richardson), 1 June 1989 through 31 December 1989. (Project 767209 - Continuation)

$1,981.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Grandparents Living Theatre Consultancy, Department of Theatre (J. Reilly), 15 July 1989 through 30 September 1989. (Project 767950 - New)

$1,166.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Parent Support Group, Cooperative Extension Field Operations (C. J. Syracuse), 1 July 1989 through 30 June 1990. (Project 767586 - Continuation)

TOTAL - STATE OF OHIO AWARDS $ 74,647.00

Industrial Research Contracts/Grants

$172,500.00 - Pfizer, Inc., Groton, Connecticut, Clinical Pharmacology Research Unit, Department of Pharmacology (N. Gerber), 1 October 1989 through 30 September 1990. (Project 767958 - Continuation)

$125,000.00 and Equipment - Apple Computer, Inc., Cupertino, California, Apple Classroom of Tomorrow -- Longitudinal Research Center, Department of Educational Theory and Practice (R. J. Tierney), 27 August 1989 through 26 August 1990. (Project 767963 - New) (Approximate Dollar Value - $17,722)

$63,660.00 - Marion Laboratories, Inc., Kansas City, Missouri, Therapeutic Trials of Campylobacter pylori Gastritis, Department of Veterinary Pathobiology (G. S. Krakowka), 1 May 1988 through 30 April 1990. (Project 766744 - Continuation)

$40,000.00 - Owens-Illinois, Inc., Columbus, Ohio, Job Task Analysis and Video Job Orientation Development -- Eight Jobs, Education Administration (D. P. Anderson), 1 January 1990 through 31 December 1990. (Project 767987 - New)


February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)


$18,613.00 - Dad's Products Company, Inc., Meadville, Pennsylvania, Nutrition Study -- Chronic, Department of Veterinary Clinical Sciences (C. A. Buffington), 1 May 1989 through 30 April 1990. (Project 767975 - New)


$11,000.00 - Perkin Elmer Corporation, Danbury, Connecticut, Low Observable Program, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 December 1989 through 31 December 1989. (Project 767973 - New)

$5,000.00 - Digital Equipment Corporation, Maynard, Massachusetts, Innovator's Program, Department of Geology and Mineralogy (J. J. Daniels), 1 January 1990 through 30 June 1990. (Project 767952 - New)

$2,700.00 - Superconductive Components, Inc., Columbus, Ohio, Fabrication of High Temperature Superconducting Films, Department of Physics (T. R. Lemberger), 1 March 1989 through 31 August 1989. (Project 767603 - Continuation)

$1,864.00 - Dad's Products Company, Inc., Meadville, Pennsylvania, Nutrition Study -- Urine pH, Department of Veterinary Clinical Sciences (C. A. Buffington), 1 May 1989 through 30 April 1990. (Project 767978 - New)

TOTAL - INDUSTRIAL AWARDS $ 558,670.00

Other Non-Federal Research Contracts/Grants

$49,070.00 - Elsa U. Pardee Foundation, Midland, Michigan, Enzymatic Mechanisms in Oncogene Translation, Department of Chemistry (J. A. Cowan), 1 January 1990 through 31 December 1990. (Project 767964 - New)

$45,417.00 - United Nations, Rome, Italy, Monitoring Gene Changes Following Long-Term Seed Storage, Department of Agronomy OARDC and Department of Agronomy (J. C. Kamalay), 1 December 1989 through 30 November 1990. (Project 766128 - Continuation)

$40,000.00 - American Cancer Society, Atlanta, Georgia, Function of the Herpes Simplex Virus Deoxyribonuclease, Department of Microbiology and Immunology (D. S. Parris), 1 January 1990 through 31 December 1990. (Project 765525 - Continuation)

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$37,500.00 - Franklin County Mental Health Board, Columbus, Ohio, Expanding Services for Persons with Mental Illness: An Interdisciplinary Collaboration, College of Social Work (M. Coleman), 1 October 1989 through 31 May 1990. (Project 767948 - New)

$36,852.00 - Friends of the Homeless, Inc., Columbus, Ohio, Job Training for the Homeless Demonstration Program for 1989, College of Social Work (B. Toomey), 1 October 1989 through 30 September 1990. (Project 767966 - New)


$28,663.00 - North Carolina State University, Raleigh, North Carolina, Determination of Fluid-to-Particle Convective Heat Transfer Coefficients in Aseptic Systems, Department of Natural Resources - OARDC and Department of Agricultural Engineering (S. K. Sastry), 1 December 1989 through 30 November 1990. (Project 767953 - New)

$27,047.00 - The University of Texas, Richardson, Texas, Generation of a Data Extract from the National Longitudinal Surveys, Center for Human Resource Research (R. J. Olsen), 1 March 1989 through 28 February 1990. (Project 767977 - New)

$25,500.00 - Dade County Public Schools, Miami, Florida, Technical Assistance to the Bilingual Vocational Instructional Program, Center on Education and Training for Employment (J. E. Friedenberg), 1 September 1989 through 31 August 1990. (Project 767174 - Continuation)

$25,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Effect of Parental Occupation on Pre-Term Birth, Spontaneous Abortion, Stillbirth, and Low Birth Weight, Department of Preventive Medicine (R. S. Hopkins), 1 January 1990 through 31 December 1990. (Project 767317 - Continuation)


$23,956.00 - Circleville Water Authority, Circleville, Ohio, Delineation of Traveltime-Related Capture Zones Surrounding the Circleville, Ohio Wellfield Using Numerical Simulation and Particle Tracking, Department of Geology and Mineralogy (E. S. Bair), 1 January 1990 through 31 December 1990. (Project 767957 - New)


701
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)


$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Synthetic Approach to Triquinane Antitumor Antibiotics, Department of Chemistry (V. H. Rawal), 1 November 1989 through 31 October 1990. (Project 767943 - New)

$15,000.00 - Deafness Research Foundation, New York, New York, Endotoxin Induced Histopathological and Functional Changes in the Inner Ear, Department of Otolaryngology (T. DeMaria), 1 January 1990 through 31 December 1990. (Project 767971 - New)

$10,000.00 - Sigma Kappa Sorority Foundation, North Little Rock, Arkansas, Using an Animal Model (Nucleus Basalis Lesions) to Evaluate a New Pharmacotherapeutic Drug (SR-3) in the Treatment of Alzheimer's Disease, Department of Pathology (R. F. Mervis), 1 September 1989 through 31 August 1990. (Project 767198 - Continuation)

$8,307.68 - American Institute of Indian Studies, Minneapolis, Minnesota, American Institute of Indian Studies Center for Art and Archaeology, Department of History of Art (S. L. Huntington), 1 July 1989 through 30 June 1990. (Project 766037 - Continuation)

$8,000.00 - Southeastern Center for Electrical Engineering Education, St. Cloud, Florida, Objective Measures of Speech Intelligibility and Quality, Department of Electrical Engineering (A. Krishnamurthy), 1 January 1989 through 31 December 1989. (Project 767390 - Continuation)

$5,000.00 - The Getty Center for Education in the Arts, Los Angeles, California, Development of a Handbook for Aesthetics in Art Education, Department of Art Education (E. L. Lankford), 1 August 1989 through 30 April 1990. (Project 767961 - New)

$4,650.00 - Medical College of Ohio, Toledo, Ohio, Agronomic Effectiveness of Kiln-Dust Stabilized Municipal Sewage Sludge, Department of Agronomy - OARDC and Department of Agronomy (T. J. Logan), 15 March 1989 through 28 February 1990. (Project 766198 - Continuation)

$4,600.00 - North Atlantic Treaty Organization, Brussels, Belgium, Transport in Biological Lyotropic Liquid Crystals, Department of Chemistry (M. Caffrey), 1 January 1990 through 31 December 1991. (Project 767978 - New)

$2,500.00 - Dr. David L. Nalin, Blue Bell, Pennsylvania, Publication of the Pala Indian Catalogue, Department of History of Art (J. Huntington and S. L. Huntington), 1 November 1989 through 30 October 1990. (Project 767949 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $ 575,158.68
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$1,320.00 - from Ohio University, Athens, Ohio, for "Dry Sorbent Injection Technology for Coal Desulfurization," under the direction of the Department of Chemical Engineering for the period January 1, 1989 through January 31, 1990. (529797, Ext. 1)

$(4,922).00 - reduced funding from Ohio Department of Transportation, Columbus, Ohio, for "Refinement of Analytical Photogrammetric Techniques for Application in Transportation Survey," under the direction of the Department of Geodetic Science for the period October 1, 1985 through September 30, 1990. (529688, Ext. 4)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT ($3,602.00)

Industrial and Other Sponsored Research and Development

$59,570.00 - from General Electric Aircraft Engines, Cincinnati, Ohio, for "Plasma Arc Tunnel System," under the direction of the Department of Aeronautical and Astronautical Engineering for the period September 9, 1987 through December 31, 1989. (312432, Ext. 5)

$40,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the Department of Electrical Engineering. (312884)

$32,717.00 - from Dow Chemical, Midland, Michigan, for "Fundamental Sorbent Properties for Application in Gas Drying by Pressure Swing Adsorption," under the direction of the Department of Chemical Engineering for the period July 1, 1988 through October 31, 1990. (529776, Ext. 1)

$26,298.00 - from City of Columbus, Ohio, for "Department of Development Internships," under the direction of the Department of City and Regional Planning for the period October 1, 1989 through June 30, 1990. (529743, Ext. 3)

$25,000.00 - from McDonnell Douglas, St. Louis, MO, for "Functional Reasoning," under the direction of the Department of Computer & Information Science for the period September 1, 1988 through September 30, 1990. (529782, Ext. 1)

$14,797.00 - from 23 sponsors of 26 development projects in three departments/research areas of the College.

$12,900.00 - from Royston, Hanamoto, Alley & Abey, Mill Valley, CA, for "Application of 3D CAD Models and Image Processing to Campus Master Planning," under the direction of the Department of Landscape Architecture for the period December 1, 1989 through August 31, 1990. (312526)

$7,700.00 - from Battelle Columbus Lab, Columbus, Ohio, for "Transport and Dosimetry Analysis Test Specimen Evaluation," under the direction of the Department of Mechanical Engineering for the period April 1, 1988 through December 31, 1989. (312460, Ext. 5)

$4,000.00 - from various industry for affiliate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

$(4,000.00) - reduced funding from General Electric, Schenectady, NY, for "Design, Fabrication and Testing of a Turbojet Engine Simulator," under the direction of the Department of Aeronautical and Astronautical Engineering for the period September 1, 1988 through June 30, 1990. (312472)

$(4,200.00) - reduced funding from General Electric, Cincinnati, Ohio, for "Testing of the CF6-80C2 Engine Simulator in a Scale Model of the Japan Air Lines Test Cell," under the direction of the Department of Aeronautical and Astronautical Engineering for the period July 1, 1989 through October 16, 1989. (312513)

INDUSTRIAL AND OTHER SPONSORED RESEARCH $214,782.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

Mary E. Border Ohio 4-H Scholarship Fund

The Mary E. Border Ohio 4-H Scholarship Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Mary E. Border (B.S.H.E. '26) of Manhattan, Kansas. Mary Border's career began as a Strasburg, Ohio, 4-H member and included gaining of Master of Sociology and Master of Adult Education degrees and professional service as a home economist and 4-H agent for the Cooperative Extension Service in Kansas, a state extension leader, and federal service to four developing countries through the United States' AID organization.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to an incoming freshman or undergraduate student at The Ohio State University or other accredited university who has background in 4-H work as a club member or advisor. Scholarship awards shall be based on financial need and shall be awarded to students regardless of their area of study. Scholarship recipients shall be chosen by the State 4-H leader or his/her designee, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the chief administrative officials responsible for the College of Agriculture, the Ohio Cooperative Extension Service, the State 4-H program, and the Ohio 4-H Foundation, in order to carry out the desire of the donor.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Cecil and Eloise Robinson Agricultural Engineering Endowment Fund

The Cecil and Eloise Robinson Agricultural Engineering Endowment Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Cecil Robinson (B.S.Agr. ’40) and Eloise Robinson of Delaware, Ohio.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide program support to the Department of Agricultural Engineering. Programs may include undergraduate scholarships, graduate associateship supplements, special grants or loans to assist working students, or to realize some other program which represents any unusual and special opportunity which cannot be implemented otherwise. The selection of the specific program of use shall be made by the Department of Agricultural Engineering’s Honors and Awards Committee in consultation with the department chairperson. If approved by the faculty, another appropriate committee shall perform the selection function. Where scholarships and other financial assistance are involved, awards shall be made in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Helen, Joseph, Lynne, and Steve Skilken Athletic Scholarship Fund

The Helen, Joseph, Lynne, and Steve Skilken Athletic Scholarship Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the Helen and Joseph Skilken Foundation of Columbus, Ohio.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to supplement the student-athlete grant-in-aid scholarships of members of The Ohio State University men’s intercollegiate varsity swimming and diving team. The recipients shall be chosen by the Director of Athletics, in consultation with the University Committee on Student Financial Aid and a representative of the Helen and Joseph Skilken Foundation.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Helen, Joseph, Lynne, and Steve Skilken Athletic Scholarship Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Director of Athletics, in order to carry out the desire of the donors.

The Gary J. Nicholson Memorial Scholarship in Horticulture

The Gary J. Nicholson Memorial Scholarship in Horticulture was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from family, friends, organizations, etc., to honor the late Gary Nicholson (B.S.Agr. '69) of Burlington, Ontario, Canada.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to undergraduate and/or graduate students in horticulture with floriculture marketing interests. Preference shall be given to Canadian applicants. Scholarship recipients shall be chosen by the Dean of the College of Agriculture or his/her designee, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Francille M. Firebaugh Study Abroad Scholarship Fund

The Francille M. Firebaugh Study Abroad Scholarship Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University in honor of Francille M. Firebaugh, Vice Provost Emeritus, International Affairs, and Professor Emeritus, Family Resource Management, with gifts to The Ohio State University Development Fund from friends and colleagues in recognition of her years at Ohio State and her commitment to International Studies. These gifts were matched by Francille Firebaugh and her husband, John Firebaugh.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Francille M. Firebaugh

Study Abroad Scholarship Fund (contd)

The annual income shall be used to provide one or more Study Abroad Scholarships. Applicants must be currently enrolled at The Ohio State University. Selection will be based upon appropriateness of the study abroad experience to the student's academic and/or career goals and academic achievement. Scholarship recipients shall be selected upon the recommendation of the Director of The University Center for International Studies and in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate program administrative officer in order to carry out the desire of the donors.

The Alpha and Paul E. Haffey Scholarship Endowment

The Alpha and Paul E. Haffey Scholarship Endowment was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Alpha Gesell Haffey (B.S.H.E. ’42) and Paul E. Haffey (B.S.Agr. ’42) of Saddle River, New Jersey.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be divided equally between the College of Agriculture and the College of Human Ecology to provide one or more scholarships to undergraduate and/or graduate students. The College of Agriculture scholarships shall be awarded to students in the Department of Horticulture, with preference given to those with an interest in floriculture marketing. The College of Human Ecology scholarships shall be awarded at the discretion of the Dean of the College of Human Ecology. The selection of the recipients shall be made by the deans of the respective colleges in consultation with the University Committee on Student Financial Aid. If the income is not needed to support undergraduate or graduate scholarships, it may be used for discretionary project support by the aforementioned department or college.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Dr. Samuel and Rosa Lobe Scholarship Fund

The Dr. Samuel and Rosa Lobe Scholarship Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Samuel Lobe (M.D. ’32) of Cleveland, Ohio, in memory of his wife, Rosa Lobe.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Dr. Samuel and Rosa Lobe Scholarship Fund (contd)

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to deserving medical students. Selection of the recipients shall be made by the Dean of Students for the College of Medicine in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

Adrienne A. and Marvin R. Zahniser Scholarship Fund

The Adrienne A. and Marvin R. Zahniser Scholarship Fund was established February 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Adrienne A. and Marvin R. Zahniser, employees of The Ohio State University of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students entering their senior year who are majoring in History or Religious Studies (presently a part of the program in Comparative Studies). If a suitable candidate is not found in these areas, the scholarship shall be awarded to a student majoring in French, Spanish or German. This scholarship shall be awarded for one year only on the basis of superior academic achievement (grade point average of 3.70 or better) in university-level courses. The recipient shall be selected by University officers in the Colleges of the Arts and Sciences entrusted with selecting students eligible for various Honors awards, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Fund

Richard R. Medhurst & Genevieve H. Medhurst
Scholarship in Social Welfare

The Richard R. Medhurst Scholarship in Social Welfare was established February 7, 1986, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from his wife, Genevieve H. Medhurst, family and friends in memory of Dr. Richard R. Medhurst, Ohio State Professor in the College of Social Work. The name was changed February 2, 1990.

All gifts are to be invested in the University’s Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for students enrolled in the College of Social Work who demonstrate a need for financial assistance and who best exemplify the academic excellence, professional leadership and creativity which Dr. Medhurst sought to develop in his students. The selection of recipient(s) shall be made by the College of Social Work in consultation with the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever in the College of Social Work as directed by the Board of Trustees, with preference being given to recommendations from the Dean of the College.

Change in Description of Named Funds

The All American Youth Horse Show Endowment Fund

The All American Youth Horse Show Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the All American Youth Horse Show Foundation, Columbus, Ohio. The fund description was revised February 2, 1990.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an academic scholarship to one or more twelfth grade students who are members of the 4-H horse program, planning to enroll autumn quarter at The Ohio State University or other accredited post secondary institution in any course of study. Applicants for this award shall be judged on their level of 4-H involvement (40%), experiences in other youth organizations (20%), future plans and potential for success (20%), and need for the scholarship (20%). Awarding of this scholarship shall be made in accordance with the rules and procedures set forth by the State 4-H Office and in consultation with the All American Youth Horse Show Foundation and The Ohio State University Committee on Student Financial Aid. The scholarship may be renewable providing the recipients maintain a satisfactory level of progress. Any income not used in a given year will be added to the principal at the end of that fiscal year.
February 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

The All American Youth Horse Show Endowment Fund (contd)

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Baker & Hostetler Law Library And Building Fund

The Mildred S. and Noel F. George Fund was established September 3, 1982, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Kaplan-Halpert Foundation of Cleveland, Ohio, through the generosity of Noel F. George (J.D. '32), a trustee of the Foundation, on the occasion of his 50th anniversary of graduation from the College of Law. The name was changed to The Noel F. George - Baker & Hostetler Law Library Fund on February 7, 1986. The name was further changed to The Baker & Hostetler Law Library and Building Fund on June 3, 1988. The description was revised August 23, 1989, and was further revised February 2, 1990.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used at the discretion of the Dean of the College of Law for the activities of the Law Library in the College of Law and/or for the library addition to the Law Building. The Dean of the College may, at his discretion, invade the fund's principal.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for legal education.

Edward Montgomery, Jr., Scholarship Fund

The Edward Montgomery, Jr., Scholarship Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Edward E. Montgomery, Jr. (B.Mus. '69), Worthington, Ohio. The fund description was revised February 2, 1990.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.
Change in Description of Named Funds (contd)

Edward Montgomery, Jr., Scholarship Fund (contd)

The annual income shall be used to provide scholarships and grants-in-aid to entice and maintain talented musicians in The Ohio State University Marching Band. Provided there is no marching band or Ohio State University Band into which it is merged, then the annual income shall be used to provide scholarship assistance to students in the College of The Arts or its successor. Scholarship recipients shall be selected by representatives of the School of Music in consultation with the Marching Band Director and the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

--0--

Request for Construction Bids

Background

Magnetic Resonance Imaging/Spectroscopy Facility

This project will provide a facility of approximately 1,870 gross square feet as a one-floor addition to the northwest corner of Wiseman Hall to house the 4.7 Tesla/40 cm research grade magnetic resonance imaging and spectroscopy instrument which is now being purchased by the University through the Department of Radiology. This instrument will enhance research efforts within the College of Medicine by applying the non-invasive features of spectroscopy to the study of a variety of pathological conditions in animal models. Studies are likely to be centered on oncology and cardiology although efforts in spinal cord injury and other areas are also anticipated. This project was designed in-house by the University Architect's Office.

Construction funds for the project are available from College of Medicine, and construction costs are estimated at $200,000.00. The total estimated project cost is $250,000.00.

Rightmire Hall Renovation - Phase II, Demolition

This phase of the project will provide the demolition of the ground floor and first floor areas of Rightmire Hall in preparation for housing new research laboratories for the Biotechnology Center. This demolition will include all interior non-bearing walls, ceilings, stepped concrete floors in lecture halls and all HVAC, plumbing and electrical lines and systems not scheduled for reuse. This project also will include the purchase and installation of structural steel and metal floor deck to infill portions of the first floor where lecture halls were removed.

Construction funds for the project are available from University funds; and construction costs are estimated at $611,710.00. The total estimated project cost for this phase of the project is $873,220.00.

(See Appendix XXXVI for maps, 749.)
REQUEST FOR CONSTRUCTION BIDS

Resolution No. 90-74

MAGNETIC RESONANCE IMAGING/MAGNETIC RESONANCE SPECTROSCOPY
RIGHTMIRE HALL RENOVATION - PHASE II DEMOLITION

Synopsis: The Fiscal Affairs Committee recommended authorization to request construction bids for the Magnetic Resonance Imaging/Spectroscopy Facility and Rightmire Hall Renovation - Phase II Demolition projects.

WHEREAS the Magnetic Resonance Imaging/Spectroscopy Facility is to be constructed at the northwest corner of Wiseman Hall, to house the 4.7 Tesla/40 cm research grade magnetic resonance imaging and spectroscopy instrument; and

WHEREAS the total estimated cost of this project is $250,000.00, with the estimated construction cost being $200,000.00, with funding provided from the College of Medicine; and

WHEREAS the Rightmire Hall Renovation - Phase II Demolition project will demolish the ground floor and first floor areas of Rightmire Hall in preparation for housing new research laboratories for the Biotechnology Center; and

WHEREAS the total estimated cost of the project is $873,220.00, with the estimated construction cost being $611,710.00, with funding provided from University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

Report of Award of Contracts and
Establishment of Contingency Funds

Background

(See Appendix XXXXVII for a complete tabulation of bids on all projects and locator maps, page 753. Amounts shown with an * include accepted alternates.)

Food Facility Freezer Addition - Stores and Receiving Building
Ohio Stadium Turf Replacement
West Campus Bridges

Food Facility Freezer Addition - Stores and Receiving Building

This project will provide adequate facilities for the Food Facility operation by modifying and adding to the existing Stores and Receiving Building on Kenny Road. The freezer portion will be a 19,750 gross square foot addition to the east side of the building; a 1,792 gross square foot
February 2, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Food Facility Freezer Addition - Stores and Receiving Building (contd)

addition to the northeast side of the building will serve as a storage area for products that do not need controlled temperatures; and a portion of the building will be modified to house a cooler. The total project cost is $1,830,000.00; funding is provided from Business Management. The estimated completion date is July 1990. The contracts awarded are as follows:

General Contract: Refrigeration Systems, Columbus, Ohio

Amount: $1,257,660.00 *

Estimate: $1,218,100.00 *

Plumbing Contract: Westland Mechanical, Reynoldsburg, Ohio

Amount: $38,800.00

Estimate: $52,900.00

HVAC Contract: Farber Corporation, Columbus, Ohio

Amount: $65,500.00 +

Estimate: $52,500.00 +

Electric Contract: Buckeye Electric, Dayton, Ohio

Amount: $197,999.00

Estimate: $217,800.00

Total All Contracts: $1,559,959.00 *

Contingency Allowance: $ 76,934.03 (4.9% of construction cost)

Total Project Cost: $1,830,000.00

The General and HVAC contracts are in excess of filed estimate of costs; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

Ohio Stadium Turf Replacement

This project will remove the existing artificial surface and subbase in Ohio Stadium and install a grass playing surface, associated drainage and irrigation systems, and subbase. The total project cost is $1,020,100; funding is provided by the Athletic Department. The estimated completion date is August 1990, but it is anticipated that Spring Commencement still can be held in the Stadium since all work inside the Stadium is to be completed by May 1. The contracts awarded are as follows:
Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Ohio Stadium Turf Replacement (contd)

Site Work Contract: George Igel Co., Columbus, Ohio
Amount: $164,600.00 *
Estimate: $177,500.00 *
Turf Contract: Turf Services, Tuscaloosa, Alabama
Amount: $604,335.00 +
Estimate: $584,000.00
Storm Sewer Contract: Concrete Construction, Columbus, Ohio
Amount: $124,000.00
Estimate: $155,000.00
Total All Contracts: $892,935.00 *
Contingency Allowance: $44,654.97 (5% of construction cost)
Total Project Cost: $1,020,100.00

*The Turf contract is in excess of filed estimate of costs; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

West Campus Bridges

This project will replace the West Campus pedestrian bridges, which have deteriorated due to water penetration and salt damage, with prefabricated steel structures. The total project cost is $120,660; funding is available from funds appropriated in House Bill 810, Basic Renovations. The estimated completion date is July 1990. The contract awarded is as follows:

General Contract: Contractors Unlimited, Columbus, Ohio
Amount: $94,500.00
Estimate: $127,000.00
Total All Contracts: $94,500.00
Contingency Allowance: $7,560.00 (8% of construction cost)
Total Project Cost: $120,660.00
February 2, 1990 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-75

FOOD FACILITY FREEZER ADDITION - STORES AND RECEIVING BUILDING
OHIO STADIUM TURF REPLACEMENT
WEST CAMPUS BRIDGES

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Food Facility Freezer Addition - Stores and Receiving Building, Ohio Stadium Turf Replacement, and West Campus Bridges projects.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989 and August 23, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Food Facility Freezer Addition - Stores and Receiving Building and Ohio Stadium Turf Replacement; and

WHEREAS a resolution adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following project: West Campus Bridges:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the Food Facility Freezer Addition - Stores and Receiving Building, Ohio Stadium Turf, and West Campus Bridges projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Acceptance of the Gift of Real Property

Background

Busch Boulevard Centre
Columbus, Ohio

The Busch Boulevard Centre is located in north Columbus, northeast of the intersection of Busch Boulevard and East Dublin-Granville Road, adjacent to the Continent and the French Market. The Centre is situated on approximately 3.9 acres on the east side of Boardwalk Street and the south side of Mediterranean Avenue and consists of a one-story brick and masonry concrete block multi-tenant strip shopping center with approximately 50,000 square feet of leasable space, subdivided into 28 storefronts. The building is approximately four years old and in excellent condition. The site is zoned C-4 (General Commercial).
February 2, 1990 meeting, Board of Trustees

Acceptance of the Gift of Real Property (contd)

Background (contd)

Busch Boulevard Centre
Columbus, Ohio (contd)

The owner of the property is Mr. Bernard R. Ruben of Columbus, Ohio. Mr. Ruben desires to make a gift of the property to the University to establish an Endowment fund to support The Arthur G. James Cancer Hospital and Research Institute.

An MAI appraisal done in October 1989, by the Robert Weiler Company valued the property at $4,275,000.00. There is an outstanding mortgage and other indebtedness totalling approximately $3,525,000.00. The gift value would be the difference, minus any acquisition, holding, or disposition costs.

(See Appendix XXXVIII for map, page 761.)

ACCEPTANCE OF THE GIFT OF REAL PROPERTY
Resolution No. 90-76

BUSCH BOULEVARD CENTRE
COLUMBUS, OHIO

Synopsis: The Fiscal Affairs Committee recommended acceptance of a gift of real property, known as the Busch Boulevard Centre, in Columbus, Ohio.

WHEREAS Mr. Bernard R. Ruben is the owner of the Busch Boulevard Centre, a 28-store plaza, located on the east side of Boardwalk Street and the south side of Mediterranean Avenue in the City of Columbus; and

WHEREAS Mr. Ruben desires to make a gift of this property to The Ohio State University through The Ohio State University Development Fund to establish an Endowment fund for the support of The Arthur G. James Cancer Hospital and Research Institute; and

WHEREAS the property has an appraised value of $4,275,000.00 as of October 1989, and an outstanding mortgage and other indebtedness totalling approximately $3,525,000.00; and

WHEREAS the appropriate University offices have determined that acceptance of this gift is in the best interest of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That this property be accepted as a gift to The Ohio State University through The Ohio State University Development Fund from Mr. Bernard R. Ruben and that the President and/or Vice President for Business and Administration be authorized to acquire title to this property in the name of the Board of Trustees of The Ohio State University and that this gift be used to establish an Endowment fund for the support of The Arthur G. James Cancer Hospital and Research Institute; and

BE IT FURTHER RESOLVED, That the Treasurer be authorized to use existing Endowment funds to satisfy the outstanding mortgage and other debts on this property.
February 2, 1990 meeting, Board of Trustees

ACCEPTANCE OF THE GIFT OF REAL PROPERTY (contd)

BUSCH BOULEVARD CENTRE
COLUMBUS, OHIO (contd)

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Barone, Kessler, Shumate, Amb. Wolf and Mrs. Bowser and Ms. Casto, and a negative vote cast by Mr. Teaford.

--0--

EASEMENT
COLUMBUS SOUTHERN POWER COMPANY
Resolution No. 90-77

Synopsis: The Fiscal Affairs Committee recommended authorization to renew an easement for electric service to the Columbus Southern Power Company at 2760 North Star Avenue in Columbus, Ohio.

WHEREAS in 1974 The Ohio State University granted to the Columbus Southern Power Company a 15-year easement consisting of a strip of land approximately ten feet in width and approximately 600 feet in length for the installation of electric service at 2760 North Star Avenue; and

WHEREAS this easement has expired and Columbus Southern Power has requested a renewal for a 15-year period; and

WHEREAS the electric service will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXXVIV for map, page 763.)

--0--
February 2, 1990 meeting, Board of Trustees

EASEMENTS
COLUMBUS SOUTHERN POWER COMPANY
Resolution No. 90-78

THE OHIO STATE UNIVERSITY AIRPORT

Synopsis: The Fiscal Affairs Committee recommended authorization to renew an easement for electric service to the Columbus Southern Power Company at 2630, 3240, and 3600 Case Road and 5461 Godown Road.

WHEREAS in 1973 The Ohio State University granted to the Columbus Southern Power Company a 15-year easement consisting of a strip of land ten feet in width and approximately 600 feet in length for the installation of electric service at 2760 North Star Avenue; and

WHEREAS this easement has expired and Columbus Southern Power has requested a renewal for a 15-year period; and

WHEREAS the electric service will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix L for map, page 765.)

EASEMENT
THE OHIO BELL TELEPHONE COMPANY
Resolution No. 90-79

Synopsis: The Fiscal Affairs Committee recommended authorization to grant an easement for the installation of a telephone anchor line to The Ohio Bell Telephone Company near the basketball courts along Eleventh Avenue.

WHEREAS the Ohio Bell Telephone Company has requested a 15-year easement consisting of a strip of land approximately 2.5 feet in width and approximately 5 feet in length for the installation of an anchor/guy wire on a telephone pole located along Eleventh Avenue; and

WHEREAS the anchor line will serve University property and surrounding areas; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE
February 2, 1990 meeting, Board of Trustees

**EASEMENT**

**THE OHIO BELL TELEPHONE COMPANY (contd)**

BE IT RESOLVED, That the Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LI for map, page 767.)

**Acceptance of the Report of Audit Recommendations and Responses for 1988-89**

**Background**

In August 1985, The Ohio State University, with the approval of the Auditor of State, entered into a four-year agreement with Touche Ross and Co. for an annual audit of the University for fiscal years 1985-86 through 1988-89. The agreement contains one two-year renewal option for audits of fiscal years 1989-90 and 1990-91. The audit for 1988-89 is the fourth year of this four to six-year commitment.

The Touche Ross audit of the University for 1988-89, meeting the requirements of the Auditor of State, has been received and reviewed by the appropriate University offices. The "audit" actually consists of several documents: the report on the audit of the University's financial statements; the auditors' summary letter to the Board of Trustees; a letter of recommendations for the University; separate letters of recommendations for the University Hospitals and the WOSU Stations; and the Ohio Revised Code compliance letter; all for the 1988-89 fiscal year.

For each of the auditors' recommendations, the report contains a response from the appropriate University office or offices.

This report of the audit and the University responses is recommended for acceptance.

**ACCEPTANCE OF THE REPORT OF AUDIT RECOMMENDATIONS AND RESPONSES FOR 1988-89**

Resolution No. 90-80

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of audit recommendations and responses for The Ohio State University for 1988-89, conducted by Touche Ross and Co.

WHEREAS in August 1985, with the approval of the Auditor of State, The Ohio State University entered into a four-year agreement with Touche Ross and Co. for an annual audit of the University for fiscal years 1985-86 through 1988-89; and

WHEREAS the Touche Ross audit of the University for 1988-89, meeting the requirements of the Auditor of State, has been received and the accounts, records, files, and reports of the University have been found to be in satisfactory condition, but certain recommendations have been included in the audit report; and
ACCEPTANCE OF THE REPORT OF AUDIT
RECOMMENDATIONS AND RESPONSES FOR 1988-89 (contd)

WHEREAS the auditors' recommendations have been studied by the appropriate University offices, and procedures and responses have been developed as a result of the recommendations:

NOW THEREFORE

BE IT RESOLVED, That the report of the Touche Ross and Co. audit for The Ohio State University for 1988-89 (including the report on the audit of the University's financial statements; the summary letter to the Board of Trustees; the letter of recommendations for the University; separate letters of recommendations for the University Hospitals and the WOSU Stations; and the Ohio Revised Code compliance letter) and the management responses to the recommendations be accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

Adoption of the Master Plan Update and Noise Compatibility Study
for The Ohio State University Airport

Mr. Jackson:

We place before you a resolution for the Adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport. We have had many discussions about this Master Plan and involved staff in the development of this. We are requesting your authorization to send it on to the FAA for their review and approval. It will take some time in their organization before a document comes back from them. We have with us today, Stacy Weislogel, who is Chairman of the Department of Aviation. He has a few words to say about this study and wants to tell you about the significant points, as he perceives them, before it is submitted. Dr. Weislogel --

Dr. Stacy Weislogel:

Thank you, Mr. Jackson. Madam Chair and Members of the Board of Trustees, we appreciate the opportunity to appear before you today to urge the adoption of The Ohio State University Airport Plan Update Study and companion Noise Compatibility Study. Before I get into my brief presentation, I would like to introduce Mr. Ken Newstrom, who is our Director of the Airport, and Dr. Bill Griffith, Assistant Vice President Emeritus of Campus Planning. Both of these gentlemen were very deeply involved in the preparation of both studies and also in assisting our consultant, Aviation Planning Associates in Cincinnati, Ohio, over the last two years in putting these two studies together.

In the preparation and development of these two studies, there were inputs from three advisory committees, including the citizens' groups from nearby neighborhoods. And, indeed, there was considerable public involvement, including five meetings of the advisory committees, and five public involvement workshops for the local community. We were very pleased with the positive working relationship which developed between the University and the Northwest Civic Association during the development of these two plans.
Adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport (contd)

Dr. Weislogel: (contd)

The Master Plan recommends completion of twenty-eight development projects over the next twenty years. The first of the two key projects is the lengthening of the north parallel runway at the University Airport from 3,000 feet to 6,000 feet in length. This will represent the ultimate length of the primary runway at the University Airport for the future. Having a second long runway will enhance the Airport operational safety and efficiency, and also contribute to the mitigation of noise around the Airport due to aircraft operations.

The second major project is the proposed acquisition, through surplus means, of the Ohio Army and National Guard Aviation Support Facility. It is proposed that when that facility is vacated as an aeronautical facility later this year by the Army, that it be developed as an aviation research and flight education center for the Department of Aviation and the University.

With regard to the Master Plan Study, I think it is important to put it into proper perspective. Please remember that the purpose of a Master Plan is simply to provide a long-term development guide for the facilities that will be required to meet projected aviation needs over the next twenty years and assure the financial viability of the Airport. And the plan is just that -- a plan. If you will indulge me, I am going to ask Mr. Newstrom to pass out a copy of the first Master Plan layout of the University Airport, dated 1943. When you compare that layout plan to the existing Airport facility, I think it reinforces the point that a plan is just a plan. It is one's best planning for the present into the future.

The Federal Aviation Administration requires that a Master Plan be conducted approximately every 10 years in order for the Airport sponsor, in this case, Ohio State, to continue eligibility for federal funding for airport improvement and development projects. That leverage is one dollar of local funds generates nine dollars of federal funds. You should also note that a specific project must appear in the approved Airport Master Plan in order to be eligible for federal funding. Now after the FAA accepts the Master Plan, each proposed development project that the University chooses to go forward with will require both Board of Trustees approval and FAA approval. So each of the twenty-eight projects, as they are chosen to go forward, must receive both of those approvals individually. In addition, if the project involves a major runway extension, such as the lengthening of a runway, environmental assessment is required by the FAA, as well as public hearings. So, there is ample opportunity for public involvement later on for each of the proposed projects as they come before the University for approval.

In regard to the Noise Compatibility Study -- which is the companion study which we urge adoption of today -- its purpose is to evaluate existing and future aircraft noise and land use compatibility in the areas surrounding the Airport, and it also proposes a program to reduce any noise impact. This Noise Compatibility Study concludes that, indeed, the community surrounding the Airport is exposed to minimal noise exposure in accordance with federal standards. With regard to the volume of noise complaints that we hear at University Airport, you will be interested in knowing that in Fiscal Year 1987-88 we had a total of eighteen noise complaints. In 1988-89, the number was thirty-two. During calendar year 1989, the total number of noise complaints was thirty-seven, about three noise complaints a month. Nine of those thirty-nine complaints were from one individual.
February 2, 1990 meeting, Board of Trustees

Adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport (contd)

Dr. Weislogel: (contd)

I would like to point out that from an academic standpoint the Department of Aviation's students, faculty, and staff are excited about the educational benefits which result from developing the Airport in accordance with the Master Plan which is before you today. To give you some perspective on the academic program at The Ohio State University, the Ohio State aviation academic program is considered one of the nation's leading collegiate aviation programs. Of the 400 programs that exist nationwide, we consistently rank in the top 10. Since 1948, over 30,000 students have enrolled in aviation classrooms and flight laboratories. The enrollment has doubled each decade since 1950. Today, there are 500 declared aviation majors enrolled in three baccalaureate degree programs in the three colleges at The Ohio State University.

Now what is the importance of this Master Plan Study to our aviation students in the educational progress? In general, the Master Plan provides a development plan which will better serve not only the public service interests of the University, but also the educational interests of our OSU declared aviation majors -- over 500 of them. The Master Plan Study will allow us to continue to provide learning laboratory experiences for aviation major students. Indeed, over one-third of the over 100 employees who manage, operate, and maintain the Airport 365 days a year, 24-hours a day, are Ohio State aviation majors working on a degree in aviation, while, in effect, conducting a parallel cooperative education experience working in the various functions of operating a major airport. The Airport serves as a learning laboratory, similar to the University Hospitals, in that our students are exposed to a wide-range of career related experiences on a daily basis. The Master Plan Study will also continue to provide a plan to enable the Airport to remain financially self-sufficient thereby providing the needed financial support to the aviation academic program.

Therefore, Mr. Chairman and Members of the Board of Trustees, I urge your adoption of the Master Plan Update Study and Noise Compatibility Study for The Ohio State University Airport which is before you today. I would also ask Mr. Newstrom to hand out one other piece of information and that is the graph of our aviation enrollments since the early 1940's. You will note the high demand for aviation education at The Ohio State University. Thank you, very much. Mr. Jackson --

Mr. Jackson:

Clearly, Dr. Weislogel has provided outstanding leadership for what is an outstanding program at The Ohio State University within the College of Engineering. And I know that Dr. Glower would have liked to have been here this morning, but he presently is winging his way to Mexico. I am sure Dr. Weislogel would be glad to answer any questions that anybody might have.

Ms. Davis:

Dick, I have a question. Concerning the academic education program, is there any cost to the students that are majoring in aviation, above and beyond normal tuition, or not?
Dr. Weislogel:

Of the 500 declared aviation majors in our program today, approximately 20 percent of those students pursue what we refer to as the "aircraft system specialization," which is the flight education tract. Those are the students who have a career objective of becoming a professional pilot. Those are persons who will manage and operate the high-tech aircraft which are flying in the national aviation system today. That tract does, indeed, require an additional equipment usage charge for the purpose of obtaining the proper FAA Airmans' Certificates in learning how to fly for the entry level professional pilot position. So to answer your question, the only additional charge to aviation students are those that relate to aircraft equipment use charges in our Aircraft Systems Specialization.

Ms. Davis:

In the risk in sounding more naive, is there a means where there can be financial aid for those charges?

Dr. Weislogel:

We are always seeking financial aid. It never ceases to amaze us the resourcefulness of our aviation majors. For an aviation major who is receiving flight education, up to and including the entry level pilot position, that individual student will, in addition to the cost of a four-year baccalaureate education, also have to provide an additional $17,000 to $20,000 for flight education courses. We have in place an aviation student loan fund which we have put together ourselves for purposes of funding outstanding students in flight education. There is also scholarship aid available within the collegiate aviation community. We would like to see that grow much greater than it is now. We are also encouraged by what we see happening with the airlines today. We are associated with both United Airlines and Trans World Airlines in internship experience programs. It appears that the airline industry recognizes that it will be the collegiate aviation programs in the future which will provide the entry level professional pilot candidate to the airline industry. And I think that will result in better financial aid for these students over the next decade, the source being the airlines.

Ms. Davis:

Thank you.

Mr. Kessler:

About what percentage at Don Scott now is student flying and non-student flying?

Dr. Weislogel:

Of the total number of flight operations each year, Mr. Kessler -- an operation being a take off or landing -- approximately 50 percent of those operations are flight education related.
February 2, 1990 meeting, Board of Trustees

Adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport (contd)

Mr. Kessler:

Do you count the touch and goes?

Dr. Weislogel:

The landing is an operation and a take-off is an operation. When they come down and touch and go that is called two operations.

Mr. Jackson:

You might also add to your list of support items the student relationship to the University's air transportation.

Dr. Weislogel:

Yes, that is an important compliment of our program, especially for those students who are in the aircraft systems specialization. The Ohio State University Air Transportation Service is, of course, an in-house air transportation service. And one of the internship programs that we have is the air transportation service internship program provided by the Office of Business and Administration. Two students are enrolled in that program each quarter. And, of course, we select the better students. When they complete the two quarter program, those students are qualified to become co-pilots on corporate aircraft -- corporate turbo aircraft, I might add.

Mr. Kessler:

Any other questions? Thank you both, very, very much.

Mr. Jackson:

I think it is important to read the last paragraph, on the last page:

"NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees of The Ohio State University hereby adopts the University Airport Master Plan Study and the University Airport Noise Compatibility Study, including associated documents, reports, and maps, all dated January 1990, subject to approval by the Federal Aviation Administration and provided that, as appropriate, specific action by this Board shall be required for implementation of these plans."

Dr. Weislogel mentioned that and I want to make sure that that is clear.

Mr. Kessler:

So, if you were a Trustee you would make that motion?

Mr. Jackson:

Yes, Sir.
Adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport (contd)

Mr. Teaford:

It was my understanding that the reason we are doing this is that the FAA requires this adoption of a plan before they would think about giving us any money.

Mr. Jackson:

That is correct. I would also like to say, Mr. Teaford, that I think this has been one of the fine opportunities that I have had to work with since I have been at the University. There has been a lot of discussion about this particular project, and I think it is important for everybody to know that it has been to the Board and that the Board does accept this document for submission to the FAA.

Mr. Barone:

Before we have that a motion, I understand that the aviation school in national competition each year, comes in first or second. There isn't any better aviation school in the country.

Background

The Ohio State University Airport, located at Don Scott Field, seven miles northwest of the University's central campus area, was established by action of the Board of Trustees in November 1942. The Airport is situated on a 792-acre site, part of the University's 1,377-acre Don Scott Field area. Today, the University Airport is one of the nation's leading general aviation facilities. It is the second most active nonairline airport in Ohio and supports a high level of flight education activity. The Airport is University owned and operated, and its aeronautical services are provided exclusively through the University's Department of Aviation within the College of Engineering.

Aircraft activity levels at the Airport have grown steadily in recent years. The Airport handled some 158,000 aircraft operations in 1987; the forecast is for this to increase to more than 226,000 operations in 2007, a growth rate of two to three percent per year. In addition, it is expected that there will be increased demand for facilities to base private aircraft and to provide higher levels of flight training education.

In response to these anticipated levels of growth, increasing development in the surrounding area, a request from the Federal Aviation Administration (FAA), and current Airport facility needs, the University initiated a comprehensive Airport planning effort in late 1987. The purpose was two-fold: to update the University Airport Master Plan to provide a long-term development guide for the facilities that will be required to meet projected aviation needs and to conduct a Noise Compatibility Study to evaluate existing and future aircraft noise and land use compatibility in the areas surrounding the Airport and develop a program to reduce noise impacts. The University contracted with Aviation Planning Associates, Inc., of Cincinnati, to conduct these two studies in accordance with FAA guidelines and funded in part by the University Airport ($16,667.00) and in part through an FAA planning grant ($150,000.00). The results of these studies are "The Ohio State University Airport Master Plan Study" and "The Ohio State University Airport Noise Compatibility Study," both dated January 1990.

The University's initial Airport Master Plan was adopted by the Board of Trustees in January 1961. It subsequently was revised by action of the Board in February 1972, and December 1978.
Adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport (contd)

Background (contd)

The Master Plan update study resulting in the proposed revisions included: an inventory of existing facilities and services; projections of aviation activity over the next 20 years; analysis of the Airport's current operational capacity; identification of facilities required to meet the projected demand; identification of development alternatives, including a preferred alternative, to meet future facility needs; review of the potential environmental impacts associated with the recommended development plan; preparation of drawings reflecting the proposed plan; analysis of the financial feasibility of the plan; and analysis of the potential for further economic development of the Airport and the remaining Don Scott Field land area.

The Master Plan Study recommends completion of 28 development projects throughout the next 20 years to maintain compatibility between the University's flight education program and private aviation users and to allow the Airport to meet projected future aviation demand. Two key projects are: 1) Proposed acquisition of the Ohio Army National Guard Aviation Support Facility to be developed as an aviation research and flight education center, and 2) Lengthening runway 9L-27R from 3,000 to 6,000 feet to provide a second precision instrument runway to enhance operational safety and efficiency and mitigate noise by providing a second runway for use by private aircraft.

The Noise Compatibility Study included: analysis of existing noise levels and land use patterns; development of baseline noise exposure maps; evaluation of operational alternatives to reduce future noise levels; evaluation of land use management techniques; and development of the Noise Compatibility Program and the recommended Future Noise Exposure Map.

The Noise Compatibility Study concludes that the University Airport has minimal noise impact on the surrounding communities. In addition to noise reduction measures already in use, the proposed Noise Compatibility Program suggests establishing preferential flight tracks designed to keep aircraft from making turns over close-in residential areas. If future construction or significant changes in aircraft activity alter noise impacts, an update to the Study will be done and appropriate additional mitigation measures will be taken.

At the beginning of these studies, the University convened advisory committees to ensure public involvement throughout the planning process and to maintain coordination with agencies involved in airport planning and development. There was a Technical Advisory Committee to oversee the studies' technical analyses: an Operations Subcommittee to review the Master Plan study, aircraft operational noise abatement strategies, and future Airport land use and aviation requirements; and a Land Use Subcommittee to evaluate methods of reducing the impact of Airport noise. In addition, there was a Community Advisory Committee representing local officials, civic associations, and other concerned citizens.

ADOPTION OF THE MASTER PLAN UPDATE AND NOISE COMPATIBILITY STUDY FOR THE OHIO STATE UNIVERSITY AIRPORT

Resolution No. 90-81

Synopsis: The Fiscal Affairs Committee recommended the adoption of the Master Plan Update and Noise Compatibility Study for The Ohio State University Airport.

WHEREAS the Board of Trustees of The Ohio State University on January 13, 1961, adopted a Master Plan for The Ohio State University Airport and adopted revisions to this Plan on February 4, 1972, and on December 7, 1978; and
ADOPTION OF THE MASTER PLAN UPDATE AND NOISE COMPATIBILITY STUDY FOR THE OHIO STATE UNIVERSITY AIRPORT (contd)

WHEREAS in June 1986, the University accepted a grant from the Federal Aviation Administration to conduct a further update of the Airport Master Plan (1987-2007) and to conduct a concurrent Airport Noise Compatibility Study (1989-1994) to assess the existing and projected noise impacts of the Airport on the surrounding communities; and

WHEREAS Aviation Planning Associates, Inc., in association with Moody/Nolan Ltd. and Grindle and Bender, was employed to perform these studies, the result of which is that the Master Plan for the Airport has been revised and the Noise Compatibility Study has been completed, with both being submitted through the University's Department of Aviation; and

WHEREAS the revision of the Master Plan incorporates projected Airport activity levels and provides a long-term development guide for the facilities needed to support these activity levels; and

WHEREAS the Noise Compatibility Study recommends a Noise Compatibility Program to reduce noise impacts on certain areas of the community which may occur by 1994:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees of The Ohio State University hereby adopts the University Airport Master Plan Study and the University Airport Noise Compatibility Study, including associated documents, reports, and maps, all dated January 1990, subject to approval by the Federal Aviation Administration and provided that, as appropriate, specific action by this Board shall be required for implementation of these plans.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Beechwold Medical Center

Background

On August 30, 1989, the Board of Trustees authorized the acquisition of assets and lease of the Beechwold Medical Center located at 4808 North High Street in Columbus, Ohio, to provide University Hospitals with an additional primary medical care site through which the University's teaching, research, and service missions may be fulfilled. This Board further authorized Manuel Tzagournis, M.D., Dean of the College of Medicine, acting in his official capacity, to form a professional corporation to manage the facility; to contract with physicians to provide the patient care; and to enter into a service agreement with the University to serve as the facility's business manager.

The formation of the professional corporation requires the appointment of a Board of Directors and officers. The University has determined that it would be in the best interest of the University to have the following University employees, or their successors in office, acting in their official capacity, serve as the corporation's directors and officers: Gerald J. Maier, Associate Executive Director of University Hospitals; S. Randy Allen, Interim Administrator of Financial Services, University Hospitals; Robert S. Sholis, Administrator for Project and Outreach Services, University Hospitals; Hagop S. Mekhjian, M.D., Assistant Vice President for Health Services; and Janet G. Achterman, University Controller. In carrying out their duties as directors and officers of this corporation as part of their official responsibility to The Ohio State University, they would be
February 2, 1990 meeting, Board of Trustees

Beechwold Medical Center (contd)

Background (contd)

entitled to any insurance or indemnity protection to which officers and employees of the University are entitled.

BEECHWOLD MEDICAL CENTER
Resolution No. 90-82

Synopsis: The Fiscal Affairs Committee recommended authorization for designated University employees to serve as Directors of Ohio State - Beechwold Physicians, Inc.

WHEREAS the Board of Trustees in Resolution 90-30 has authorized and directed the Dean of the College of Medicine to form a professional corporation to operate the Beechwold Medical Center as Trustee and, on behalf of and for the benefit of the University, to hold the professional corporation's shares for the benefit of the University; and

WHEREAS it is in the best interests of the University for the professional corporation initially to have a Board of Directors comprised of five designated employees of the University:

NOW THEREFORE

BE IT RESOLVED, That Manuel Tzagournis, M.D., Dean of the College of Medicine, acting in his official capacity, is hereby authorized and directed to appoint the following designated University employees, or the successors to their University positions, to serve as directors (and, if elected, as officers) of Ohio State - Beechwold Physicians, Inc., representing the interest of the University in such capacity: Gerald J. Maier, S. Randy Allen, Robert S. Sholis, Hagop S. Mekhjian, M.D., and Janet G. Achterman; and

BE IT FURTHER RESOLVED, That these named employees or their successors in office are hereby authorized, designated, and directed to serve as directors (and, if elected, as officers) of Ohio State - Beechwold Physicians, Inc., representing the interest of the University in such capacity as part of their official responsibilities to the University, entitling them to any immunity, insurance, or indemnity protection to which officers and employees of the University now are, or hereafter may become, entitled.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Mr. Kessler:

The Search Committee has had a number of meetings since we were established in early January. We have voted for the establishment of employing a national search firm. We have not voted on which firm, but we have interviewed a number of them. We are getting ready to go out for competitive bids on the search firm. We also have a subcommittee of our Search Committee who was charged with drawing up criteria for the selection of the President. That committee has had three meetings and has reported back to the full Search Committee. I would like to recommend to the Board of Trustees that criteria for the selection of the President of the University.

728
STATEMENT OF CRITERIA FOR SELECTION OF THE PRESIDENT
Resolution No. 90-83

Synopsis: Approval of the statement of criteria for the selection of the President is hereby requested.

WHEREAS the Search Committee, duly appointed by this Board, has reviewed the various characteristics, desired qualifications, and other pertinent standards relative to the selection of the 11th President of The Ohio State University; and

WHEREAS a statement of desired qualifications and characteristics has been developed by this Committee and is now before this Board for consideration/adoptions:

NOW THEREFORE

BE IT RESOLVED, That the statement set forth as follows shall serve as the approved criteria for the presidential selection:

CRITERIA FOR SELECTION OF THE PRESIDENT OF THE UNIVERSITY

The Ohio State University seeks a President who can lead it toward its goal of enhancing its position as a preeminent public university with land-grant missions of research, teaching, and service. The President must be able to provide innovative and creative leadership in the development and implementation of a strategic plan for the University and to communicate this vision persuasively to the University community, government leaders, and the people of Ohio and the nation.

The President of The Ohio State University must hold an earned doctorate or its equivalent, be respected by the academic community as a nationally recognized leader, and have an outstanding record of scholarly achievement. The successful candidate must be cognizant of and sensitive to the aspirations and interests of all members of a multicultural university community and be dedicated to, and preferably have a record of achievement in, an effective program for affirmative action. The President must be able to delegate responsibility and to work effectively with a strong and vital system of shared governance. She or he should foster an environment in which students, scholars, staff, and administrators of distinction can be attracted to the University. In addition, the President must be able to establish and promote favorable relationships with other constituencies including alumni, business, industry, and government. Above all, the President must exhibit the highest standards of intellectual, personal, and professional integrity.

The Ohio State University is a comprehensive, and diverse academic institution with more than 58,000 students, 4,000 faculty, 10,000 staff members, and an operating budget in excess of one billion dollars. It is committed to its land-grant tradition and to excellence in all of its endeavors. The University provides instruction at undergraduate, graduate, and professional levels and reaches out to the broader community through its colleges, comprehensive medical complex, multidisciplinary research centers and institutes, and extension services.
February 2, 1990 meeting, Board of Trustees

STATEMENT OF CRITERIA FOR SELECTION OF THE PRESIDENT (contd)

CRITERIA FOR SELECTION OF THE PRESIDENT OF THE UNIVERSITY (contd)

The Ohio State University is committed to a forceful affirmative action plan for faculty, staff, and students; is implementing a campus-wide undergraduate curriculum revision emphasizing a strong general education component; and is completing a highly successful fundraising campaign.

In sum, the University will select a decisive and vigorous individual to lead The Ohio State University into the era of global interdependence.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution with five affirmative votes cast by Messrs. Teaford, Kessler, Shumate, and Mrs. Bowser and Ms. Casto, and two abstentions by Mr. Barone and Amb. Wolf.

--0--

Thereupon the Board adjourned to meet Friday, March 2, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

Shirley D. Bowser
Vice Chairperson
APPENDIX XXXIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
January 19, 1990

Presented to the Investments Committee and
Adopted by the Board of Trustees February 2, 1990
(See page 662)
THE OHIO STATE UNIVERSITY
ENDOWMENT SUMMARY
January 19, 1990

Endowment Composition

<table>
<thead>
<tr>
<th>Equities:</th>
<th>06-30-89</th>
<th>Percent of Equity and Fixed Income Portfolio</th>
<th>01-19-90</th>
<th>Percent of Equity and Fixed Income Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>$34,629,320</td>
<td>13.98%</td>
<td>$36,006,180</td>
<td>13.72%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>0-</td>
<td>-0-</td>
<td>12,861,098 (1)</td>
<td>4.90</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>13,552,018</td>
<td>5.47</td>
<td>13,645,571</td>
<td>5.20</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>11,475,663</td>
<td>4.63</td>
<td>12,969,406</td>
<td>4.94</td>
</tr>
<tr>
<td>Siebel</td>
<td>32,173,227</td>
<td>12.98</td>
<td>33,687,589</td>
<td>12.84</td>
</tr>
<tr>
<td>University Managed</td>
<td>80,168,113</td>
<td>32.35</td>
<td>34,898,078</td>
<td>13.30</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>0-</td>
<td>-0-</td>
<td>10,451,566 (2)</td>
<td>3.99</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>0-</td>
<td>-0-</td>
<td>29,308,352 (3)</td>
<td>11.17</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>$171,998,341</td>
<td>69.41%</td>
<td>$183,827,840</td>
<td>70.06%</td>
</tr>
</tbody>
</table>

Fixed Income:

<table>
<thead>
<tr>
<th>Fixed Income:</th>
<th>01-19-90</th>
<th>Percent of Equity and Fixed Income Portfolio</th>
<th>01-19-90</th>
<th>Percent of Equity and Fixed Income Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust</td>
<td>$23,841,580</td>
<td>9.62%</td>
<td>$23,302,788</td>
<td>8.88%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>951,048</td>
<td>0.38</td>
<td>938,551</td>
<td>0.36</td>
</tr>
<tr>
<td>Diff &amp; Phelps</td>
<td>10,243,208</td>
<td>4.13</td>
<td>10,207,237</td>
<td>3.89</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>0-</td>
<td>-0-</td>
<td>9,950,094 (4)</td>
<td>3.79</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>24,150,270</td>
<td>9.75</td>
<td>23,718,702</td>
<td>9.04</td>
</tr>
<tr>
<td>University - GWA</td>
<td>10,144,887</td>
<td>4.10</td>
<td>10,138,794</td>
<td>3.86</td>
</tr>
<tr>
<td>University Managed</td>
<td>6,445,213</td>
<td>2.61</td>
<td>398,250</td>
<td>0.12</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>$75,796,204</td>
<td>30.59%</td>
<td>$78,561,416</td>
<td>29.94%</td>
</tr>
<tr>
<td><strong>Total Equities &amp; Fixed Income</strong></td>
<td>$247,794,545</td>
<td>100.00%</td>
<td>$262,389,256</td>
<td>100.00%</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$39,503,844</td>
<td></td>
<td>$39,698,346</td>
<td></td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$287,298,389</td>
<td></td>
<td>$302,087,602</td>
<td></td>
</tr>
</tbody>
</table>

(1) R. Meeder began as advisor on August 8, 1989 with $15,000,000.
(2) Wells Fargo EAFE began as advisor on October 2, 1989 with $10,000,000.
(3) Wells Fargo S&P 500 began as advisor on October 6, 1989 with $30,000,000.
(4) WR Lazard began as advisor on August 8, 1989 with $10,000,000.
### Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value January '89 to January '90</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>2.93% (1)</td>
<td>16.19%</td>
<td>19.12%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>0.96 (2)</td>
<td>(14.26)</td>
<td>(13.30) (13)</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>2.77</td>
<td>14.23</td>
<td>17.00</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>1.38 (3)</td>
<td>23.01</td>
<td>24.39</td>
</tr>
<tr>
<td>Siebel</td>
<td>5.06 (4)</td>
<td>18.49</td>
<td>23.55</td>
</tr>
<tr>
<td>University Managed</td>
<td>2.22 (5)</td>
<td>15.57</td>
<td>17.89</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>0.50</td>
<td>4.52</td>
<td>5.02 (14)</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>1.01</td>
<td>(2.31)</td>
<td>(1.30) (15)</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.97</td>
<td>18.32</td>
<td>22.29</td>
</tr>
</tbody>
</table>

### Real Estate:
- 3.85% to 8.42% (12.27%)

### Fixed Income:
- **Boatmen's Trust:** 7.85% (6) 6.55% to 14.40%
- **Cambridge:** 8.25 (7) 1.82 to 10.07
- **Duff & Phelps:** 8.12 (8) 3.97 to 12.09
- **WR Lazard:** 3.84 (9) (6.50) to 3.34 (13)
- **STW Fixed Income:** 8.77 (10) 5.20 to 13.97
- **University - GNMA:** 9.72 (11) 3.34 to 13.06
- **University Managed:** 12.63 (12) (7.38) to 5.25
- **Merrill Lynch Corporate/Government Master:** 9.01 3.14 to 12.15
- **Shearson Lehman Hutton Government/Corporate Index:** 9.19 5.05 to 14.24

(1) 0.1% of Chicago Corp. portfolio is made up of cash & cash equivalents earning 7.4%.
(2) 0.7% of R. Meeder portfolio is made up of cash & cash equivalents earning 7.4%.
(3) 2.1% of Nicholas-Applegate portfolio is made up of cash & cash equivalents earning 7.4%.
(4) 42.0% of Siebel portfolio is made up of cash & cash equivalents earning 8.3%.
(5) 15.3% of University Managed portfolio is made up of cash & cash equivalents earning 8.2%.
(6) 0.0% of Boatmen's Trust portfolio is made up of cash & cash equivalents.
(7) 100.0% of Cambridge portfolio is made up of cash & cash equivalents earning 7.4%.
(8) 0.3% of Duff & Phelps portfolio is made up of cash & cash equivalents earning 7.4%.
(9) 2.1% of WR Lazard portfolio is made up of cash & cash equivalents earning 7.4%.
(10) 2.2% of STW Fixed Income portfolio is made up of cash & cash equivalents earning 7.4%.
(11) 2.9% of University-GNMA portfolio is made up of cash & cash equivalents earning 8.1%.
(12) 0.0% of University Managed portfolio is made up of cash & cash equivalents.
(13) Reflects return from initial allocation (August 8, 1989) only.
(14) Reflects return from initial allocation (October 2, 1989) only.
(15) Reflects return from initial allocation (October 6, 1989) only.
(16) Endowment Fund Income through January 31, 1990, totaled approximately $9,027,000.
(17) Income from University Cash Investments through January 31, 1990, totaled approximately $5,380,000.

### Change in Total Valuation

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>01-19-90</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-89)</td>
<td>$287,298,389</td>
<td>Equities</td>
<td>$163,970,076</td>
<td>54.28%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>13,634,551</td>
<td>Fixed Income</td>
<td>$76,551,933</td>
<td>25.34%</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(280,000)</td>
<td>Real Estate</td>
<td>$39,600,000</td>
<td>13.11%</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>1,434,662</td>
<td>Cash</td>
<td>$21,965,593</td>
<td>7.27%</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$302,087,602</td>
<td>Total Portfolio</td>
<td>$302,087,602</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

733
**Maturities That Occurred During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Real Estate**

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>

734
## Common & Preferred Stock

### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,500</td>
<td>Aon Corp.</td>
<td>Chicago</td>
<td>40.9300</td>
<td>$184,477.50</td>
<td>$6,300.00</td>
</tr>
<tr>
<td>5,900</td>
<td>Lance, Inc.</td>
<td>&quot;</td>
<td>23.2966</td>
<td>137,698.00</td>
<td>4,484.00</td>
</tr>
<tr>
<td>1,000</td>
<td>United Stationers, Inc.</td>
<td>&quot;</td>
<td>13.0000</td>
<td>13,000.00</td>
<td>400.00</td>
</tr>
<tr>
<td>10,700</td>
<td>Northern Telecommunications Ltd.</td>
<td>Nicholas-Applegate</td>
<td>24.1836</td>
<td>259,406.30</td>
<td>2,996.00</td>
</tr>
<tr>
<td>8,300</td>
<td>Novell, Inc.</td>
<td>&quot;</td>
<td>32.9849</td>
<td>273,775.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4,200</td>
<td>Tandem Computers, Inc.</td>
<td>&quot;</td>
<td>24.5000</td>
<td>103,152.00</td>
<td>0.00</td>
</tr>
<tr>
<td>9,000</td>
<td>Total Petroleum, Inc.</td>
<td>&quot;</td>
<td>27.7500</td>
<td>250,290.00</td>
<td>7,200.00</td>
</tr>
<tr>
<td>12,200</td>
<td>Primerica Corp.</td>
<td>Siebel</td>
<td>27.3820</td>
<td>334,914.40</td>
<td>3,904.00</td>
</tr>
<tr>
<td>1,563</td>
<td>Banc One Corp.*</td>
<td>University Managed</td>
<td>30.9975</td>
<td>48,449.07</td>
<td>1,625.52</td>
</tr>
<tr>
<td>6</td>
<td>Commonwealth Edison Co.*</td>
<td>&quot;</td>
<td>21.3750</td>
<td>128.25</td>
<td>18.00</td>
</tr>
<tr>
<td>560</td>
<td>General Electric Co.*</td>
<td>&quot;</td>
<td>63.3750</td>
<td>35,490.00</td>
<td>1,052.80</td>
</tr>
<tr>
<td>500</td>
<td>General Motors Corp.*</td>
<td>&quot;</td>
<td>42.3125</td>
<td>21,256.25</td>
<td>1,500.00</td>
</tr>
<tr>
<td>18</td>
<td>General Motors Corp., Cl. E*</td>
<td>&quot;</td>
<td>54.2500</td>
<td>976.50</td>
<td>17.28</td>
</tr>
<tr>
<td>18</td>
<td>General Motors Corp., Cl. H*</td>
<td>&quot;</td>
<td>25.5628</td>
<td>460.13</td>
<td>12.96</td>
</tr>
<tr>
<td>160</td>
<td>Huntington Bancshares*</td>
<td>&quot;</td>
<td>20.0000</td>
<td>3,200.00</td>
<td>118.40</td>
</tr>
<tr>
<td>2,500</td>
<td>Lancaster Colony Corp.*</td>
<td>&quot;</td>
<td>25.1250</td>
<td>62,812.50</td>
<td>1,900.00</td>
</tr>
<tr>
<td>100</td>
<td>MCI Communications Corp.*</td>
<td>&quot;</td>
<td>43.3750</td>
<td>4,337.50</td>
<td>0.00</td>
</tr>
<tr>
<td>1</td>
<td>NIOIR, Inc.*</td>
<td>&quot;</td>
<td>42.0000</td>
<td>42.00</td>
<td>2.00</td>
</tr>
<tr>
<td>407</td>
<td>Rockwell International Corp.*</td>
<td>&quot;</td>
<td>22.1250</td>
<td>9,004.88</td>
<td>317.46</td>
</tr>
<tr>
<td>100</td>
<td>VF Corp.*</td>
<td>&quot;</td>
<td>33.0625</td>
<td>3,306.25</td>
<td>100.00</td>
</tr>
<tr>
<td>250</td>
<td>Wendy's International, Inc.*</td>
<td>&quot;</td>
<td>4.8125</td>
<td>1,203.13</td>
<td>60.00</td>
</tr>
</tbody>
</table>

* Gift

$1,747,379.66 $32,008.42
### Common & Preferred Stock

**The Ohio State University**  
**Common & Preferred Stock**

#### Sales Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain/(Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,000</td>
<td>Bob Evans Farms, Inc.</td>
<td>Chicago</td>
<td>13.8750</td>
<td>$97,125.00</td>
<td>$ (3,574.57)</td>
</tr>
<tr>
<td>1,400</td>
<td>Time-Warner, Inc.</td>
<td>&quot;</td>
<td>122.8750</td>
<td>$171,928.26</td>
<td>13,759.20</td>
</tr>
<tr>
<td>4,950</td>
<td>Comcast Corp.</td>
<td>Nicholas-Applegate</td>
<td>14.6420</td>
<td>$72,477.95</td>
<td>(12,909.55)</td>
</tr>
<tr>
<td>4,700</td>
<td>Community Psychiatric Centers</td>
<td>&quot;</td>
<td>26.6301</td>
<td>$124,875.11</td>
<td>11,804.75</td>
</tr>
<tr>
<td>2,600</td>
<td>Costco Wholesalers Corp.</td>
<td>&quot;</td>
<td>32.5861</td>
<td>$84,723.80</td>
<td>25,019.71</td>
</tr>
<tr>
<td>1,500</td>
<td>Disney (Walt) Co.</td>
<td>&quot;</td>
<td>109.8236</td>
<td>$164,639.89</td>
<td>66,820.12</td>
</tr>
<tr>
<td>3,900</td>
<td>Lotus Development Corp.</td>
<td>&quot;</td>
<td>26.7723</td>
<td>$104,412.07</td>
<td>(2,606.01)</td>
</tr>
<tr>
<td>7,600</td>
<td>MCI Communications Corp.</td>
<td>&quot;</td>
<td>40.3529</td>
<td>$306,681.80</td>
<td>193,772.36</td>
</tr>
<tr>
<td>2,000</td>
<td>Neiman Marcus Group, Inc</td>
<td>&quot;</td>
<td>18.3094</td>
<td>$36,497.66</td>
<td>2,875.24</td>
</tr>
<tr>
<td>9,000</td>
<td>Oracle Systems Corp.</td>
<td>&quot;</td>
<td>21.4208</td>
<td>$192,786.80</td>
<td>64,696.01</td>
</tr>
<tr>
<td>10,000</td>
<td>Norton Co.</td>
<td>Siebel</td>
<td>59.2500</td>
<td>$591,880.25</td>
<td>84,400.25</td>
</tr>
<tr>
<td>200</td>
<td>Allergan, Inc.*</td>
<td>University Managed</td>
<td>17.1250</td>
<td>$3,394.88</td>
<td>(167.62)</td>
</tr>
<tr>
<td>73</td>
<td>Beckman Instruments*</td>
<td>&quot;</td>
<td>17.8750</td>
<td>$1,290.96</td>
<td>(45.85)</td>
</tr>
<tr>
<td>330</td>
<td>Bob Evans Farms, Inc.*</td>
<td>&quot;</td>
<td>13.8995</td>
<td>$4,586.82</td>
<td>29.57</td>
</tr>
<tr>
<td>6</td>
<td>Commonwealth Edison Co.*</td>
<td>&quot;</td>
<td>20.9999</td>
<td>$124.79</td>
<td>(3.46)</td>
</tr>
<tr>
<td>100</td>
<td>Exxon Corp.*</td>
<td>&quot;</td>
<td>50.8750</td>
<td>$5,072.33</td>
<td>184.83</td>
</tr>
<tr>
<td>560</td>
<td>General Electric Co.*</td>
<td>&quot;</td>
<td>65.8750</td>
<td>$36,856.77</td>
<td>1,366.77</td>
</tr>
<tr>
<td>18</td>
<td>General Motors Corp., Cl. E*</td>
<td>&quot;</td>
<td>54.5021</td>
<td>$977.40</td>
<td>0.90</td>
</tr>
<tr>
<td>18</td>
<td>General Motors Corp., Cl. H*</td>
<td>&quot;</td>
<td>25.2511</td>
<td>$450.90</td>
<td>(9.23)</td>
</tr>
<tr>
<td>1,000</td>
<td>Mesa Limited Partnership*</td>
<td>&quot;</td>
<td>8.9027</td>
<td>$8,060.43</td>
<td>(5,627.07)</td>
</tr>
<tr>
<td>407</td>
<td>Rockwell International Corp.*</td>
<td>&quot;</td>
<td>23.0000</td>
<td>$9,328.68</td>
<td>323.80</td>
</tr>
<tr>
<td>500</td>
<td>Standard Products Co.*</td>
<td>&quot;</td>
<td>22.2500</td>
<td>$11,092.62</td>
<td>(2,782.38)</td>
</tr>
<tr>
<td>100</td>
<td>VF Corp.*</td>
<td>&quot;</td>
<td>32.7500</td>
<td>$2,254.89</td>
<td>(51.36)</td>
</tr>
</tbody>
</table>

**Gain/(Loss) On Sale**  

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain/(Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,000</td>
<td>Bob Evans Farms, Inc.</td>
<td>Chicago</td>
<td>13.8750</td>
<td>$97,125.00</td>
<td>$ (3,574.57)</td>
</tr>
<tr>
<td>1,400</td>
<td>Time-Warner, Inc.</td>
<td>&quot;</td>
<td>122.8750</td>
<td>$171,928.26</td>
<td>13,759.20</td>
</tr>
<tr>
<td>4,950</td>
<td>Comcast Corp.</td>
<td>Nicholas-Applegate</td>
<td>14.6420</td>
<td>$72,477.95</td>
<td>(12,909.55)</td>
</tr>
<tr>
<td>4,700</td>
<td>Community Psychiatric Centers</td>
<td>&quot;</td>
<td>26.6301</td>
<td>$124,875.11</td>
<td>11,804.75</td>
</tr>
<tr>
<td>2,600</td>
<td>Costco Wholesalers Corp.</td>
<td>&quot;</td>
<td>32.5861</td>
<td>$84,723.80</td>
<td>25,019.71</td>
</tr>
<tr>
<td>1,500</td>
<td>Disney (Walt) Co.</td>
<td>&quot;</td>
<td>109.8236</td>
<td>$164,639.89</td>
<td>66,820.12</td>
</tr>
<tr>
<td>3,900</td>
<td>Lotus Development Corp.</td>
<td>&quot;</td>
<td>26.7723</td>
<td>$104,412.07</td>
<td>(2,606.01)</td>
</tr>
<tr>
<td>7,600</td>
<td>MCI Communications Corp.</td>
<td>&quot;</td>
<td>40.3529</td>
<td>$306,681.80</td>
<td>193,772.36</td>
</tr>
<tr>
<td>2,000</td>
<td>Neiman Marcus Group, Inc</td>
<td>&quot;</td>
<td>18.3094</td>
<td>$36,497.66</td>
<td>2,875.24</td>
</tr>
<tr>
<td>9,000</td>
<td>Oracle Systems Corp.</td>
<td>&quot;</td>
<td>21.4208</td>
<td>$192,786.80</td>
<td>64,696.01</td>
</tr>
<tr>
<td>10,000</td>
<td>Norton Co.</td>
<td>Siebel</td>
<td>59.2500</td>
<td>$591,880.25</td>
<td>84,400.25</td>
</tr>
<tr>
<td>200</td>
<td>Allergan, Inc.*</td>
<td>University Managed</td>
<td>17.1250</td>
<td>$3,394.88</td>
<td>(167.62)</td>
</tr>
<tr>
<td>73</td>
<td>Beckman Instruments*</td>
<td>&quot;</td>
<td>17.8750</td>
<td>$1,290.96</td>
<td>(45.85)</td>
</tr>
<tr>
<td>330</td>
<td>Bob Evans Farms, Inc.*</td>
<td>&quot;</td>
<td>13.8995</td>
<td>$4,586.82</td>
<td>29.57</td>
</tr>
<tr>
<td>6</td>
<td>Commonwealth Edison Co.*</td>
<td>&quot;</td>
<td>20.9999</td>
<td>$124.79</td>
<td>(3.46)</td>
</tr>
<tr>
<td>100</td>
<td>Exxon Corp.*</td>
<td>&quot;</td>
<td>50.8750</td>
<td>$5,072.33</td>
<td>184.83</td>
</tr>
<tr>
<td>560</td>
<td>General Electric Co.*</td>
<td>&quot;</td>
<td>65.8750</td>
<td>$36,856.77</td>
<td>1,366.77</td>
</tr>
<tr>
<td>18</td>
<td>General Motors Corp., Cl. E*</td>
<td>&quot;</td>
<td>54.5021</td>
<td>$977.40</td>
<td>0.90</td>
</tr>
<tr>
<td>18</td>
<td>General Motors Corp., Cl. H*</td>
<td>&quot;</td>
<td>25.2511</td>
<td>$450.90</td>
<td>(9.23)</td>
</tr>
<tr>
<td>1,000</td>
<td>Mesa Limited Partnership*</td>
<td>&quot;</td>
<td>8.9027</td>
<td>$8,060.43</td>
<td>(5,627.07)</td>
</tr>
<tr>
<td>407</td>
<td>Rockwell International Corp.*</td>
<td>&quot;</td>
<td>23.0000</td>
<td>$9,328.68</td>
<td>323.80</td>
</tr>
<tr>
<td>500</td>
<td>Standard Products Co.*</td>
<td>&quot;</td>
<td>22.2500</td>
<td>$11,092.62</td>
<td>(2,782.38)</td>
</tr>
<tr>
<td>100</td>
<td>VF Corp.*</td>
<td>&quot;</td>
<td>32.7500</td>
<td>$2,254.89</td>
<td>(51.36)</td>
</tr>
</tbody>
</table>

**Gain/(Loss) On Sale**

\[
\text{Total Gain/(Loss)} = \sum \text{Gain/(Loss)} = 2,032,520.06
\]

\[
\text{Total Gain/(Loss)} = \sum \text{Gain/(Loss)} = 437,276.41
\]

* Gift
### The Ohio State University

#### Bonds

##### Purchases Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000</td>
<td>Community Program Loan Trust 4.500% 10/01/18</td>
<td>Boatmen's</td>
<td>7.3327</td>
<td>7.9292</td>
<td>61.3690</td>
<td>$613,690.00</td>
</tr>
<tr>
<td>1,100,000</td>
<td>U.S. Treasury Note 8.125% 02/15/98</td>
<td>Duff &amp; Phelps</td>
<td>8.1275</td>
<td>8.1283</td>
<td>99.9687</td>
<td>1,099,656.25</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Security Pacific National Bank 9.750% 05/15/99</td>
<td>STW</td>
<td>9.4730</td>
<td>9.2726</td>
<td>102.9240</td>
<td>1,029,240.00</td>
</tr>
<tr>
<td>3,700,000</td>
<td>U.S. Treasury Bond 9.250% 02/15/16</td>
<td>&quot;</td>
<td>8.2855</td>
<td>8.1639</td>
<td>111.6406</td>
<td>4,130,703.13</td>
</tr>
</tbody>
</table>

$6,873,289.38
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>410,000</td>
<td>U.S. Treasury Bond</td>
<td>Boatmen's</td>
<td>107.7500</td>
<td>$441,775.00</td>
<td>$40,890.27</td>
</tr>
<tr>
<td>925,000</td>
<td>U.S. Treasury Bond</td>
<td>Cambridge</td>
<td>101.4375</td>
<td>938,296.88</td>
<td>(16,042.96)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Note</td>
<td>Duff &amp; Phelps</td>
<td>97.1562</td>
<td>971,562.00</td>
<td>29,687.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Note</td>
<td>STW</td>
<td>104.8750</td>
<td>1,048,750.00</td>
<td>76,669.00</td>
</tr>
<tr>
<td>5,000,000</td>
<td>U.S. Treasury Bond</td>
<td>&quot;</td>
<td>90.5000</td>
<td>4,525,000.00</td>
<td>(73,292.91)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$7,925,383.88</td>
<td>$57,910.40</td>
</tr>
</tbody>
</table>
### THE OHIO STATE UNIVERSITY ENDOWMENT FUND

#### REAL ESTATE INVESTMENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Yield</th>
<th>Acquired</th>
<th>Invested</th>
<th>Appraised Value</th>
<th>Date</th>
<th>Appraised Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 930 Kinnear Road</td>
<td>7.97%</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,550,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>3.74%</td>
<td>1984</td>
<td>825,000</td>
<td>2,650,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>21.84</td>
<td>1961</td>
<td>659,930</td>
<td>1,250,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>17.36</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>8.81%</td>
<td>1968</td>
<td>170,000</td>
<td>696,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>.55%</td>
<td>1971</td>
<td>100,793</td>
<td>641,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>.00%</td>
<td>1973</td>
<td>27,334</td>
<td>27,334</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00</td>
<td>1978</td>
<td>71,012</td>
<td>71,012</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>.00%</td>
<td>1986</td>
<td>190,000</td>
<td>283,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>.00%</td>
<td>1962</td>
<td>160,265</td>
<td>2,896,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>.00%</td>
<td>1972</td>
<td>544,398</td>
<td>4,367,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>.03%</td>
<td>1968</td>
<td>310,538</td>
<td>6,853,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>.00%</td>
<td>1971</td>
<td>265,079</td>
<td>2,749,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>.19%</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>.00%</td>
<td>1965</td>
<td>24,000</td>
<td>1,080,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>.00%</td>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>06/89</td>
<td></td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road</td>
<td>2.94%</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
<td></td>
</tr>
<tr>
<td>20.988 acres of land on Shier-Rings Road</td>
<td>.00%</td>
<td>1978</td>
<td>241,848</td>
<td>1,155,000</td>
<td>08/89</td>
<td></td>
</tr>
<tr>
<td>17.92 acres of land on Eiterman Road</td>
<td>.00%</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
<td></td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>8.08%</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$11,329,287</td>
<td>$39,698,346</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Solicitations
Date: January 31, 1990
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the months of December 1989 and January 1990, the University voted thirty-one proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Ratification of independent auditors;
3) Amendment to increase authorized common stock;
4) Ratification of a partners purchase plan;
5) Termination of cumulative voting;
6) Establishment of a classified Board of Directors;
7) Approval of the 1990 Stock Option Plan;
8) Approval of a merger;
9) Adoption of a non-employee director stock plan;
10) Ratification of a plan to grant stock options to current, and certain past directors;
11) Approval of the employee stock plan;
12) Adoption of parameters for a stock incentive plan;
13) Adoption of a 1990 incentive plan;
14) Ratification of a management incentive plan;
15) Adoption of a long term incentive plan for key employees;
16) Approval of the executive bonus plan;
17) Amendment to increase authorized preferred stock;
18) Approval of the sale of a business segment.

The shareholder proposals were as follows:

1) Termination of business relationships in South Africa;
2) Formation of a sub-committee to review military contracts;
3) Amendment to lower the majority vote needed to amend the Articles of Incorporation;
4) Establishment of cumulative voting.

740
The University voted for all Management proposals and against all shareholder proposals except Proposal number one. In addition, Management opposed all shareholder proposals.

The thirty-one corporations were:

1) A. Schulman Incorporated
2) Alberto Culver Company
3) Alco Standard Corporation
4) Acme-Cleveland Corporation
5) Andrew Corporation
6) Apple Computer, Incorporated
7) Bassett Furniture Industries, Incorporated
8) Citizens and Southern Corporation
9) Comdisco, Incorporated
10) Costco Wholesale Corporation
11) Cross and Trecker Company
12) Data General Corporation
13) Emerson Electric Company
14) Farm Credit Services of Mid-America, FCA
15) Federal Home Loan Mortgage Corporation
16) Hewlett Packard Company
17) King World Productions, Incorporated
18) Luby's Cafeterias, Incorporated
19) National Service Industries, Incorporated
20) Outboard Marine Corporation
21) Oneok, Incorporated
22) Peoples Energy Corporation
23) Phillips Industries, Incorporated
24) Ralston Purina Company
25) Rollins Environmental Services Incorporated
26) Tandem Computers, Incorporated
27) United Stationers Incorporated
28) Walgreen Company
29) Walt Disney Company
30) Westvaco Corporation
31) Zenith Electronics Corporation
APPENDIX XXXXV

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET - 2ND QUARTER REPORT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees February 2, 1990
(See page 674)
### Summary of Proposed Resources

(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1989-90</th>
<th>Estimated 1989-90</th>
<th>$ Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$452.39</td>
<td>$453.79</td>
<td>$1.40</td>
<td>.3%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>346.34</td>
<td>344.14</td>
<td>-2.20</td>
<td>-.6%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>220.07</td>
<td>220.07</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$1,018.80</td>
<td>$1,018.00</td>
<td>-.80</td>
<td>-.1%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>27.65</td>
<td>28.34</td>
<td>.69</td>
<td>2.5%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>33.84</td>
<td>33.84</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$1,080.29</td>
<td>$1,080.18</td>
<td>-.11</td>
<td>.0%</td>
</tr>
</tbody>
</table>

UBP/February 2, 1990
## Summary of Proposed Uses
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1989-90</th>
<th>Estimated 1989-90</th>
<th>$ Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$452.39</td>
<td>$453.79</td>
<td>$1.40</td>
<td>.3%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>346.23</td>
<td>343.80</td>
<td>-2.43</td>
<td>-.7%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>220.07</td>
<td>220.07</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$1,018.69</td>
<td>$1,017.66</td>
<td>-1.03</td>
<td>-.1%</td>
</tr>
<tr>
<td>Regional Campuses</td>
<td>27.42</td>
<td>27.16</td>
<td>-.26</td>
<td>-.9%</td>
</tr>
<tr>
<td>OARDC</td>
<td>33.84</td>
<td>33.84</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Grand Totals</td>
<td>$1,079.95</td>
<td>$1,078.66</td>
<td>-1.29</td>
<td>-.1%</td>
</tr>
</tbody>
</table>

UBP/February 2, 1990
### The Ohio State University
#### 1989-90 Current Funds Budget
##### 2nd Quarter Report

**All Funds Resources Summary**
*(In Millions of Dollars)*

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1989-90</th>
<th>Budgeted 1989-90</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$263.58</td>
<td>$.00</td>
<td>$39.51</td>
<td>$303.09</td>
<td>$304.64</td>
</tr>
<tr>
<td>Student Fees</td>
<td>156.57</td>
<td>5.00</td>
<td>.00</td>
<td>161.57</td>
<td>158.69</td>
</tr>
<tr>
<td><strong>Other Resources</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>17.28</td>
<td>.00</td>
<td>85.60</td>
<td>102.88</td>
<td>102.88</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>.30</td>
<td>.00</td>
<td>15.16</td>
<td>15.54</td>
<td>15.53</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>.74</td>
<td>.00</td>
<td>15.10</td>
<td>15.84</td>
<td>15.84</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>4.05</td>
<td>.00</td>
<td>57.90</td>
<td>61.95</td>
<td>61.86</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>1.55</td>
<td>.00</td>
<td>8.80</td>
<td>10.35</td>
<td>10.35</td>
</tr>
<tr>
<td>Department and University Services</td>
<td>.37</td>
<td>28.37</td>
<td>.00</td>
<td>28.74</td>
<td>28.77</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>.02</td>
<td>84.52</td>
<td>.00</td>
<td>84.54</td>
<td>86.25</td>
</tr>
<tr>
<td>Hospital Sales &amp; Services</td>
<td>.00</td>
<td>222.45</td>
<td>.00</td>
<td>222.45</td>
<td>222.45</td>
</tr>
<tr>
<td>Other Sources</td>
<td>9.25</td>
<td>3.80</td>
<td>.00</td>
<td>13.05</td>
<td>13.54</td>
</tr>
<tr>
<td><strong>Total Other Resources</strong></td>
<td>$33.64</td>
<td>$339.14</td>
<td>$180.56</td>
<td>$553.34</td>
<td>$555.47</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$453.79</td>
<td>$344.14</td>
<td>$220.07</td>
<td>$1,018.00</td>
<td>$1,018.80</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>13.41</td>
<td>.00</td>
<td>.02</td>
<td>13.43</td>
<td>13.30</td>
</tr>
<tr>
<td>Student Fees</td>
<td>10.19</td>
<td>.13</td>
<td>.00</td>
<td>10.32</td>
<td>9.77</td>
</tr>
<tr>
<td><strong>Other Resources</strong></td>
<td>.65</td>
<td>1.69</td>
<td>2.25</td>
<td>4.59</td>
<td>4.38</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td>$24.25</td>
<td>$1.82</td>
<td>$2.27</td>
<td>$26.34</td>
<td>$27.65</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>.00</td>
<td>.00</td>
<td>21.70</td>
<td>21.70</td>
<td>21.70</td>
</tr>
<tr>
<td>Federal</td>
<td>.00</td>
<td>.00</td>
<td>7.60</td>
<td>7.60</td>
<td>7.60</td>
</tr>
<tr>
<td><strong>All Other</strong></td>
<td>.00</td>
<td>1.81</td>
<td>2.73</td>
<td>4.54</td>
<td>4.54</td>
</tr>
<tr>
<td><strong>Total OARDC</strong></td>
<td>$.00</td>
<td>$1.81</td>
<td>$32.03</td>
<td>$33.84</td>
<td>$33.84</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>276.99</td>
<td>.00</td>
<td>61.23</td>
<td>338.22</td>
<td>339.64</td>
</tr>
<tr>
<td>Student Fees</td>
<td>166.76</td>
<td>51.13</td>
<td>.00</td>
<td>171.89</td>
<td>168.46</td>
</tr>
<tr>
<td><strong>Other Resources</strong></td>
<td>34.29</td>
<td>342.64</td>
<td>193.14</td>
<td>570.07</td>
<td>572.19</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
<td>$478.04</td>
<td>$347.77</td>
<td>$254.37</td>
<td>$1,080.18</td>
<td>$1,080.29</td>
</tr>
</tbody>
</table>

UBP/February 2, 1990

746
## THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET
2ND QUARTER REPORT

### All Funds Uses Summary
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1989-90</th>
<th>Budgeted 1989-90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>$452.70</td>
<td>$33.37</td>
<td>$204.18</td>
<td>$690.25</td>
<td>$689.15</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>.00</td>
<td>37.11</td>
<td>.00</td>
<td>37.11</td>
<td>38.65</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>.00</td>
<td>17.93</td>
<td>4.00</td>
<td>21.93</td>
<td>21.93</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>1.09</td>
<td>30.34</td>
<td>.00</td>
<td>31.43</td>
<td>32.02</td>
</tr>
<tr>
<td>Total Auxiliaries</td>
<td>$1.09</td>
<td>$85.38</td>
<td>$4.00</td>
<td>$90.47</td>
<td>$92.60</td>
</tr>
<tr>
<td>University Hospitals</td>
<td>.00</td>
<td>225.05</td>
<td>11.89</td>
<td>236.94</td>
<td>236.94</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$453.79</td>
<td>$343.80</td>
<td>$220.07</td>
<td>$1,017.66</td>
<td>$1,018.69</td>
</tr>
<tr>
<td>Regional Campuses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>5.30</td>
<td>.84</td>
<td>.67</td>
<td>6.81</td>
<td>6.57</td>
</tr>
<tr>
<td>Lima Campus</td>
<td>4.58</td>
<td>.08</td>
<td>.41</td>
<td>5.07</td>
<td>5.49</td>
</tr>
<tr>
<td>Mansfield Campus</td>
<td>4.61</td>
<td>.05</td>
<td>.40</td>
<td>5.06</td>
<td>4.94</td>
</tr>
<tr>
<td>Marion Campus</td>
<td>4.07</td>
<td>.03</td>
<td>.46</td>
<td>4.56</td>
<td>4.74</td>
</tr>
<tr>
<td>Newark Campus</td>
<td>4.76</td>
<td>.57</td>
<td>.33</td>
<td>5.66</td>
<td>5.68</td>
</tr>
<tr>
<td>Total Regional Campuses</td>
<td>$23.32</td>
<td>$1.57</td>
<td>$2.27</td>
<td>$27.16</td>
<td>$27.42</td>
</tr>
<tr>
<td>OARDC</td>
<td>.00</td>
<td>1.81</td>
<td>32.03</td>
<td>33.84</td>
<td>33.84</td>
</tr>
<tr>
<td>Total Uses</td>
<td>$477.11</td>
<td>$347.18</td>
<td>$254.37</td>
<td>$1,078.66</td>
<td>$1,079.95</td>
</tr>
</tbody>
</table>

UBP/February 2, 1990
THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET
2ND QUARTER REPORT

Distribution of 1989-90 Resources
Central Campus, Regional Campuses & OARDC
(In Millions of Dollars)

<table>
<thead>
<tr>
<th>Source</th>
<th>All Funds</th>
<th>Percent of Total</th>
<th>Unrestr. General</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>$338.22</td>
<td>31.3%</td>
<td>$276.99</td>
<td>57.9%</td>
</tr>
<tr>
<td>Federal Grants &amp; Contracts</td>
<td>110.48</td>
<td>10.2%</td>
<td>17.28</td>
<td>3.6%</td>
</tr>
<tr>
<td>Other Government Sources</td>
<td>29.38</td>
<td>2.7%</td>
<td>1.12</td>
<td>.2%</td>
</tr>
<tr>
<td>Student Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructional (1)</td>
<td>166.76</td>
<td>15.4%</td>
<td>166.76</td>
<td>34.9%</td>
</tr>
<tr>
<td>Non-Credit Instruction</td>
<td>5.13</td>
<td>.5%</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Hospitals Sales / Services</td>
<td>222.45</td>
<td>20.6%</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Other Sales / Services (2)</td>
<td>113.28</td>
<td>10.5%</td>
<td>.39</td>
<td>.1%</td>
</tr>
<tr>
<td>Private Gifts &amp; Grants</td>
<td>61.95</td>
<td>5.7%</td>
<td>4.05</td>
<td>.8%</td>
</tr>
<tr>
<td>Endowment</td>
<td>10.35</td>
<td>1.0%</td>
<td>1.55</td>
<td>.3%</td>
</tr>
<tr>
<td>Other Sources (3)</td>
<td>22.18</td>
<td>2.1%</td>
<td>9.90</td>
<td>2.1%</td>
</tr>
<tr>
<td>Total</td>
<td>$1,080.18</td>
<td>100.0%</td>
<td>$478.04</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

(1) Includes instructional, general, non-resident, and misc. other fees.
(2) Includes departmental sales and services and auxiliary income such as
    residence and dining hall fees and parking fees.
(3) Includes temporary investments, prior years' earnings, rental income,
    etc.
(4) Excludes all earnings and restricted funds.

UBP/February 2, 1990
APPENDIX XXXVI

MAGNETIC RESONANCE IMAGING/SPECTROSCOPY FACILITY AND RIGHTMIRE HALL RENOVATION - PHASE II, DEMOLITION

Adopted by the Board of Trustees February 2, 1990
(See page 711)
MAGNETIC RESONANCE IMAGING/MAGNETIC RESONANCE SPECTROSCOPY (MRI/MRS) RESEARCH FACILITY ADDITION TO WISEMAN HALL

OFFICE OF BUSINESS AND ADMINISTRATION
FEBRUARY 2, 1990
APPENDIX XXXVII

FOOD FACILITY FREEZER ADDITION - STORES AND RECEIVING BUILDING
OHIO STADIUM TURF REPLACEMENT
WEST CAMPUS BRIDGES

Adopted by the Board of Trustees February 2, 1990
(See page 712)
February 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
STORES AND RECEIVING PREPARED ADDITION (FOOD FACILITY)

Tabulation of Bids

Bids received by The Ohio State University on October 11, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Refrigeration Sys.*</th>
<th>Cody Keigler</th>
<th>Guthmeyer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,175,000.00</td>
<td>$1,240,500.00</td>
<td>$1,278,000.00</td>
<td>$1,384,800.00</td>
</tr>
<tr>
<td>Alt. G-1 (Concrete Pavement)</td>
<td>15,700.00</td>
<td>6,765.00</td>
<td>54,000.00</td>
<td>17,000.00</td>
</tr>
<tr>
<td>Alt. G-2 (Asphalt Drive)</td>
<td>25,400.00</td>
<td>7,205.00</td>
<td>47,000.00</td>
<td>15,000.00</td>
</tr>
<tr>
<td>Alt. G-3 (Gravel Pavement)</td>
<td>2,000.00</td>
<td>3,190.00</td>
<td>3,000.00</td>
<td>2,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$1,257,660.00</td>
<td>$1,257,660.00</td>
<td>$1,382,000.00</td>
<td>$1,422,800.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Contract (Continued)</th>
<th>Freeman Constr.</th>
<th>Hoose Constr.</th>
<th>Sherman Smoot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,402,896.00</td>
<td>$1,397,000.00</td>
<td>$1,450,000.00</td>
</tr>
<tr>
<td>Alt. G-1 (Concrete Pavement)</td>
<td>16,537.00</td>
<td>22,000.00</td>
<td>40,000.00</td>
</tr>
<tr>
<td>Alt. G-2 (Asphalt Drive)</td>
<td>14,937.00</td>
<td>15,000.00</td>
<td>20,000.00</td>
</tr>
<tr>
<td>Alt. G-3 (Gravel Pavement)</td>
<td>3,082.00</td>
<td>4,500.00</td>
<td>3,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$1,437,452.00</td>
<td>$1,438,500.00</td>
<td>$1,513,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>Mendland</th>
<th>Parber</th>
<th>Marco</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$52,900.00</td>
<td>$38,800.00</td>
<td>$46,600.00</td>
<td>$46,500.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$52,900.00</td>
<td>$38,800.00</td>
<td>$46,600.00</td>
<td>$46,500.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract (Continued)</th>
<th>Badio</th>
<th>Edmonds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$49,400.00</td>
<td>$59,950.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$49,400.00</td>
<td>$59,950.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC Contract</th>
<th>Estimate</th>
<th>Parber *</th>
<th>Project Syst.</th>
<th>J. A. Gay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$52,500.00</td>
<td>$65,500.00</td>
<td>$68,300.00</td>
<td>$72,400.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$52,500.00</td>
<td>$65,500.00</td>
<td>$68,300.00</td>
<td>$72,400.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HVAC Contract (Continued)</th>
<th>Badio</th>
<th>Marco</th>
<th>Edmonds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$68,300.00</td>
<td>$87,000.00</td>
<td>$108,000.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$68,300.00</td>
<td>$87,000.00</td>
<td>$108,000.00</td>
</tr>
</tbody>
</table>
February 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

STORES AND RECEIVING FREEZER ADDITION (FOOD FACILITY)

Tabulation of Bids (Continued)

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Buckeye</th>
<th>Jess Howard</th>
<th>Romanooff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$217,800.00</td>
<td>$197,999.00</td>
<td>$235,300.00</td>
<td>$246,400.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$217,800.00</td>
<td>$197,999.00</td>
<td>$235,300.00</td>
<td>$246,400.00</td>
</tr>
<tr>
<td>Electric Contract (Continued)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$258,300.00</td>
<td>$260,250.00</td>
<td>$271,000.00</td>
<td></td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$258,300.00</td>
<td>$260,250.00</td>
<td>$271,000.00</td>
<td></td>
</tr>
</tbody>
</table>
STORES AND RECEIVING FREEZER ADDITION (FOOD FACILITY)

OFFICE OF BUSINESS AND ADMINISTRATION
FEBRUARY 2, 1990
## February 2, 1990

**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS**

**OHIO STADIUM TURF REPLACEMENT**

Tabulation of Bids

Bids received by The Ohio State University on November 14, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

### Site Work Contract

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimate</th>
<th>George Igel</th>
<th>R. Rudde</th>
<th>Strawser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$170,000.00</td>
<td>$158,300.00</td>
<td>$167,215.00</td>
<td>$171,495.00</td>
</tr>
<tr>
<td>Alt. SW-1 (Salvage of Asphalt Concrete)</td>
<td>7,500.00</td>
<td>6,300.00</td>
<td>12,000.00</td>
<td>9,736.00</td>
</tr>
<tr>
<td><strong>Total Site Work Contract</strong></td>
<td>$177,500.00</td>
<td>$164,600.00</td>
<td>$179,215.00</td>
<td>$181,231.00</td>
</tr>
</tbody>
</table>

### Site Work Contract (Continued)

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimate</th>
<th>Concrete Constr.</th>
<th>Ecco</th>
<th>Complete General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$175,077.00</td>
<td>$180,000.00</td>
<td></td>
<td>$210,000.00</td>
</tr>
<tr>
<td>Alt. SW-1 (Salvage of Asphalt Concrete)</td>
<td>14,162.00</td>
<td>12,000.00</td>
<td></td>
<td>6,500.00</td>
</tr>
<tr>
<td><strong>Total Site Work Contract</strong></td>
<td>$189,239.00</td>
<td>$192,000.00</td>
<td></td>
<td>$216,500.00</td>
</tr>
</tbody>
</table>

### Turf Contract

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimate</th>
<th>Turf Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$584,000.00</td>
<td>$604,835.00</td>
</tr>
<tr>
<td><strong>Total Turf Contract</strong></td>
<td>$584,000.00</td>
<td>$604,835.00</td>
</tr>
</tbody>
</table>

### Storm Sewer Contract

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimate</th>
<th>Concrete Constr.</th>
<th>Ecco</th>
<th>Smith &amp; Bruce</th>
<th>Complete General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$155,000.00</td>
<td>$124,000.00</td>
<td>$125,777.00</td>
<td>$133,000.00</td>
<td></td>
</tr>
<tr>
<td><strong>Total Storm Sewer Contract</strong></td>
<td>$155,000.00</td>
<td>$124,000.00</td>
<td>$125,777.00</td>
<td>$133,000.00</td>
<td></td>
</tr>
</tbody>
</table>

### Storm Sewer Contract (Continued)

<table>
<thead>
<tr>
<th>Description</th>
<th>Ecco</th>
<th>Smith &amp; Bruce</th>
<th>Complete General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Storm Sewer Contract</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OHIO STADIUM
TURF REPLACEMENT

OFFICE OF BUSINESS AND ADMINISTRATION
FEBRUARY 2, 1990
February 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

WEST CAMPUS BRIDGES

Tabulation of Bids

Bids received by The Ohio State University on November 28, 1989. Bids opened by Tamara Bell and tabulated by Ray Yancik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Contractors Unit.</th>
<th>Righter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$127,000.00</td>
<td>$94,500.00</td>
<td>$100,700.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$127,000.00</td>
<td>$94,500.00</td>
<td>$100,700.00</td>
</tr>
</tbody>
</table>
APPENDIX XXXVIII

BUSCH BOULEVARD CENTRE
COLUMBUS, OHIO

Adopted by the Board of Trustees February 2, 1990
(See page 716)
Acceptance of the Gift of Real Property
Busch Boulevard Centre
Columbus, Ohio

Office of Business and Administration
February 2, 1990
APPENDIX XXXXVIV

COLUMBUS SOUTHERN POWER COMPANY
EASEMENT RENEWAL

 Adopted by the Board of Trustees February 2, 1990
(See page 717)
APPENDIX L

COLUMBUS SOUTHERN POWER COMPANY
EASEMENT RENEWAL AT DON SCOTT FIELD

Adopted by the Board of Trustees February 2, 1990
(See page 718)
Columbus Southern Power Company Easement Renewal at Don Scott Field
APPENDIX LI

OHIO BELL TELEPHONE COMPANY EASEMENT

Adopted by the Board of Trustees February 2, 1990
(See page 719)
Ohio Bell Telephone Company Easement

Eleventh Avenue

Existing Basketball Courts

Existing Fence

PROPOSED EASEMENT

NORTH

Office of Business and Administration
February 2, 1990
APPENDIX LII

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

March 16, 1990
Leonard L. Haynes III
Doctor of Laws

Leonard L. Haynes III is the United States spokesperson for issues affecting the nation's institutions of higher learning. Named by President Bush as assistant secretary for postsecondary education in the U.S. Department of Education, he oversees numerous financial aid, institutional aid, and international education programs.

A native of Boston, Haynes graduated in 1968 from Southern University in Louisiana with a bachelor's degree in history and completed his master's degree in American history a year later at Carnegie-Mellon University. He received his doctoral degree in higher education administration from The Ohio State University in 1975.

He has held faculty positions at Southern University-Baton Rouge, Urbana Senior High School in Illinois, The Ohio State University, and Howard University.

Haynes brings wide-ranging experience in the administrative field. He has served as assistant superintendent of the Office of Academic Programs in the Louisiana Department of Education, as executive vice president and system vice president for academic affairs at the Southern University System in Louisiana, as director of the Office for the Advancement of University and Land Grant Colleges, and as director of the Desegregation Policy Studies Unit at the Institute for Services to Education.

During his tenure at Ohio State from 1974 to 1976, Haynes served as a staff assistant in the president's office and assistant to the provost and coordinator for the Committee on Academic Misconduct.

Haynes has written extensively on higher education desegregation and related issues. His work has been published in both professional journals and in other media, and his opinions have been sought by organizations nationwide.

His breadth of knowledge and level of commitment to his field have distinguished Haynes as a leader in one of our country's most critical areas—the education of our future leaders.
The Graduate School

Dean: Roy A. Koenigsknecht

Doctor of Philosophy

Bassam Abdel-Karim Abdel-Rahim

M.A. (University of Georgia); M.S.; Mechanical Engineering
Dr. Mohammad Saminy

Mansab Ali, Rashida/Chiniot, Pakistan; B.Sc.Agri., M.Sc.Agri. (University of Agriculture, Faisalabad); Agromony
Dr. P. R. Henderlong, Dr. D. L. Jeffers, Jr.

Dean Thomas Allemang, Columbus; B.S.; M.Sc. (University of Cambridge); M.S.; Computer and Information Science
Dr. B. Chandrasekaran

Martin John Babcock, Columbus; B.S. (University of Illinois); M.S.; Microbiology
Dr. Kathleen E. Kendrick

Thomas Johannes Baginski, Waukesha, WI; B.A. (University of Kiel); M.A. (University of Georgia); German
Dr. Hugo Bekker

Paul F. Balog, Columbus; B.S. (Kent State University); M.S. (Ohio University); Physics
Dr. K. Narahari Rao

Grzegorz Marian Banaszak, Gostyń, Poland; Bachelor's (Poznań University); Master's (Adam Mickiewicz University); Mathematics
Dr. Warren M. Simott

Jeffrey John Betts, Columbus; B.S. (Central Michigan University); M.S. (Ball State University); Health, Physical Education and Recreation
Dr. William M. Sherman

Ben Arthur Blake, Dalton, B.A. (Wittenberg University); M.S.; Computer and Information Science
Dr. Ten-Huang Lai

Carole Butler, Columbus; B.S. (Michigan State University); J.D.; Education
Dr. Judith L. Green

Hongda Cai, Shantou, P.R.C.; B.S., (South China Institute of Technology); M.S.; Metallurgical Engineering
Dr. Katherine T. Faber, Dr. Kambiz Vafai

Kimberly Ann Caris, Cahoon; B.S., M.A.; Psychology
Dr. David Hetherall

Catherine Grace Carnot, Kaukauna, WI; B.S. (Carroll College); M.A.; Psychology
Dr. Thomas Ostrom

Evelyn Parker Carruthers, Walpole, NH; B.S. (University of Bridgeport); M.S. (University of Connecticut); Education
Dr. Virgil E. Blanke

Estella Kathryn Casto, Grove City; A.B., M.A. (Ohio University); English
Dr. Anthony P. Libby

Yin-Heng Chen, Taiwan, R.O.C.; B.E. (National Taiwan University); M.S.; Engineering Mechanics
Dr. Jane K. Lee

Hyungjin Cho, Seoul, WA; B.S., M.S. (Seoul National University); Chemistry
Dr. Heinz G. Floss

Sanjay Choudhry, New Delhi, India; B.Tech. (Indian Institute of Technology, Kanpur); M.S.; Engineering Mechanics
Dr. Jane K. Lee

Anne Spencer Davis, Longmeadow, MA; B.A. (Western Michigan University); M.S.I.M. (Georgia Institute of Technology); Business Administration
Dr. John P. Wannous

Kristen Emily Davis, Tampa, FL; B.A. (Oakwood College); M.A.; Psychology
Dr. Pamela S. Highlen

Cesar Arana de la Sena, M'Lang, Northern Cotabato, Philippines; B.S. (Mindanao State University); M.S. (University of the Philippines); Molecular Genetics
Dr. Nathan S. Fischheimer

Tiliang Deng, Echeng, China; B.S. (Huazhong Normal University); OSU Biochemistry Program
Dr. Lee F. Johnson

Mark Edward Denham, Bowling Green, KY; B.S. (Georgia Institute of Technology); M.Div. (Boston University); M.A.; Political Science
Dr. Chadwick F. Alger

Philip D. Drake, Dallas, TX; B.S. (University of Alabama); M.A.; Accounting and Management Information Systems
Dr. Thomas J. Burns

Pamela Sue Ellinger-Dixon, Springfield; B.A. (University of Kentucky); M.A.; Education
Dr. Susan J. Sears

Jeffrey Stewart Ely, Westerville; B.S.Ed., M.S., M.S.; Computer and Information Science
Dr. Ramon E. Moore

Javad Ettetagh, Tehran, Iran; B.S. (Lamar University); M.S.; Mechanical Engineering
Dr. Kambiz Vafai

Kevin Michael Fire, Tallmadge; B.A. (University of Akron); Speech and Hearing Science
Dr. Robert A. Fox

Nancy Walker Forman, Gallipolis; B.S. (Capital University); M.A.; Education
Dr. James V. Wight

Stuart Dale Frank, Columbus; B.S., M.S. (University of Nebraska); Agricultural Economics and Rural Sociology
Dr. Dennis R. Henderson

William Lee Frost-Kumpf, Madison, WI; B.A., M.P.A. (University of Cincinnati); Public Policy and Management
Dr. Robert W. Backoff

Kathleen Ann Fuller, Cambridge; B.S., A.H.H. Prof.; Medical Microbiology and Immunology
Dr. Caroline C. Whitacre

Wojciech Jerzy Gajda, Poznań, Poland; M.S. (Adam Mickiewicz University); Mathematics
Dr. Zbigniew Fiedorowicz

Jan Clair Gordon, Warren, B.A. (Hiram College); M.A. (University of South Carolina); Communication
Dr. Goodwin Berquist, Jr.

Suzanne H. Gottling, Allentown, PA; B.A. (Wilson College); M.A.; Education
Dr. Jack A. Naglieri

Michael Smith Harrington, Athens; B.A., B.S. (Ohio University); Chemistry
Dr. Larry B. Anderson

David Allen Hartman, New Carlisle; B.S. (Wright State University); Pharmacy
Dr. Robert W. Curley, Jr.

Robert Anton Heckert, Abotsford, British Columbia, Canada; B.S. (University of British Columbia); D.V.M. (University of Saskatchewan); Veterinary Preventive Medicine
Dr. Linda J. Saff

John Jay Hegseth, Northfield, MN; B.S. (University of Wisconsin at River Falls); Physics
Dr. Claude D. Andereck

Joseph Eugene Heimlich, Attica; B.A. (Capital University); M.A., Education
Dr. David L. Boggs

Judith Savage Hoeffler, Columbus; B.A., M.A.; Communication
Dr. James L. Golden

Tien-Tzu Hou, Taipei, Taiwan, R.O.C.; B.S. (Tunghai University); Physiology
Dr. Jack A. Kall

Tung Chun Huang, Nantou, Taiwan, R.O.C.; B.A. (Tunghai University); M.A. (Chinese Culture University); Sociology
Dr. W. Li

Patricia Kay Hunt, Athens, GA; B.S. (University of Georgia); Human Ecology
Dr. Lucy R. Sibley

Huei-Yann Jeng, Chia-Yi, R.O.C.; B.S. (National Chung-Hsing University); Agriculture, Faisalabad); B.Sc.Agri., M.Sc.Agri. (University of Agriculture, Faisalabad); Agromony
Dr. P. R. Henderlong, Dr. D. L. Jeffers, Jr.

Dean: Roy A. Koenigsknecht
Ahmet Kahraman, Ankara, Turkey; B.S.M.E., M.S.M.E. (Middle East Technical University, Ankara); Mechanical Engineering
Dr. Donald R. Houser, Dr. Rajendra Singh

Osama Ahmed Kamal, Cairo, Egypt; B.S. ( Ain Shams University); M.S.; Civil Engineering
Dr. Hojjat Adeli

James Scott Ketter, Gambiana; B.S. (Bowling Green State University); Molecular Genetics
Dr. George A. Marzluf

Grigorios Dimitriou Krey, Kavalla, Greece; B.S. (School of the Ozarks); OSU Biochemistry Program
Dr. Richard P. Satir

Hakan Kuh, Seoul, South Korea; B.A. ( Hankuk University of Foreign Studies); M.A. (Korea State University); Linguistics
Dr. Arnold M. Zwicky

Bee-Yin Beatrice Kuo, Taiwan, R.O.C.; B.A. (National Taiwan University); M.A.; Education
Dr. James V. Wigét

Aristides Lazo, La Trinidad, Nicaragua; D.Y.M. (University of Cordoba, Spain); M.S.; Microbiology
Dr. James R. Blakeslee

Doobum Lee, South Korea; B.S. (Seoul National University); Mathematics
Dr. Dan Burghelea

I-en Liao, Hai lo, Taiwan, R.O.C.; B.S. (National Cheng-chi University); M.S., M.S.; Computer and Information Science
Dr. Ming-Tsan Liu

Ain-Ding Liaw, Yulin, Taiwan, R.O.C.; B.S.; M.S. (National Chung-Hsing University); Agricultural Economics and Rural Sociology
Dr. Donald W. Larson

Rhonda J. Lilley, Columbus; B.A. (Southwest Missouri State University); M.A.; Psychology
Dr. Henry Leland

Tao Luo, Guangzhou, P.R.C.; B.A. (South China Normal University); M.A. (State University of New York College at Buffalo); Education
Dr. M. Eugene Gilliom

Ivory Wendell Lyles, Forest, MS; B.S. (Alcorn State University); M.S. (Mississippi State University); Agricultural Education
Dr. J. Robert Warmbrod

Manoj Kumar Mahotra, Dehradun, Uttar Pradesh, India; B.Tech. (Indian Institute of Technology, Kanpur); M.S., M.A.; Business Administration
Dr. Larry P. Ritzman

Jill Reiling Markey, Kettering; B.A. (University of Kentucky); M.S. (University of Dayton); Art Education
Dr. Nancy P. MacGregor

Michael Anthony McCoy, Columbus; B.S.Cer.E.; M.S. (Case Western Reserve University); Ceramic Engineering
Dr. Prabhjit K. Gupta

Patricia Ann Merkle, Freeport, Ill.; B.S. (Illinois State University); M.A.; Education
Dr. Gerald M. Reagan

Diane Renee Mould, Cresskill, NJ; B.S. (Stevens Institute of Technology); Pharmacy
Dr. Alfred E. Staudt

Peter Josef Neckermann, Columbus; Diploma-Kaufmann (University of Frankfurt); Political Science
Dr. Bradley M. Richardson

Anne Elizabeth Newman, Columbus; B.S.I.S.E., M.S.; Labor and Human Resources
Dr. Robert C. Millyus

Joseph Patrick Noel, Pattox, PA; B.S. (University of Pittsburgh at Johnstown); Chemistry
Dr. Ming-Dao Tsai

Ojimadu Azenubike Ohajuruka, Umuahia, Abia State, Nigeria; B.S., M.S. (Ahmadu Bello University, Zaria); Dairy Science
Dr. Donald L. Palmquist

Gerardo Ines Pangilinan, Philippines; B.S. (University of the Philippines); M.S.; Physics
Dr. Rathnasingham Suoryakumar

Hun-Joon Park, Seoul, South Korea; B.B.A., M.B.A. (Yonsei University); Business Administration
Dr. Robert W. Backof

Rosalie H. Politsky, Youngstown, B.F.A. (Kent State University); M.A.; Art Education
Dr. Arthur D. Efland

Choon Sup Ra, Seoul, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science); M.S. (Princeton University); Chemistry
Dr. Leo A. Paquette

Brian Charles Reeder, Youngstown; B.S. (Youngstown State University); M.A. (Marshall University); M.S.; Environmental Biology
Dr. William J. Mutsch

Harry Louis Rees, Barberton; B.A., M.A.; History
Dr. Carole R. Rofel

Louis Gerard Reischneider, Belleville, IL; B.A., B.S.M.E. (University of Notre Dame); M.S.M.E. (University of Minnesota); Mechanical Engineering
Dr. Lawrence A. Kennedy

Gregory Allen Reinhart, Circleville; B.S.Agr., M.S.; Animal Science
Dr. Donald C. Mahan

Valentina Marie Remig, Galveston, TX; B.S. (College of Mount Saint Joseph-on-the-Ohio); M.S. (University of Houston); Human Ecology
Dr. Wayne A. Johnson

Richard James Roseberg, Winnebago, IL; B.S., M.S. (Oregon State University); Agronomy
Dr. Donald J. Eckert

Robert Ransom Roth, Columbus; B.S. (Iowa State University); M.A.; Health, Physical Education and Recreation
Dr. Seymour Kleinman

Deborah Lynne Sanda, Columbus; B.S., M.A.; Psychology
Dr. David Hammer

Barbara Caroline Scholz, Vandalia; B.A. (Urbana College); M.Div (Andover Newton Theological School); M.S. (University of Edinburgh); Philosophy
Dr. Steven E. Boer, Dr. Stewart D. Shapiro

Stephen Daniel Self, Mt. Vernon, B.A. (Olivet Nazarene College); M.M. (University of Missouri-Kansas City); Music
Dr. Keith E. Möxter

Richard Ivan Senderoff, Broomall, PA; B.S. (Philadelphia College of Pharmacy and Science); Pharmacy
Dr. Theodore D. Sokolski

Wallace Keith Sergent, Jr., Cedar Falls, IA; B.A. (Miami University); M.A.; East Asian Languages and Literatures
Dr. James H. Y. Tai

Sanford Len Shew, Magnolia; B.S.; Pharmacy
Dr. Carter L. Olston

Hyun-Kun Shin, Seoul, South Korea; B.S. (Yonsei University); M.A.; Health, Physical Education and Recreation
Dr. Seymour Kleinman

William Christopher Sidle, Columbus; B.S. (University of Idaho); M.S. (Portland State University); Geology and Mineralogy
Dr. Michael Barton

Marvin David Sigal, Columbus; B.S.; M.S. (Wright State University); Entomology
Dr. Glen R. Needham

Christopher Paul Silvia, Columbus; B.S.; Ph.B.; Pharmacology
Dr. Norton H. Neff

James Charles Skeels, Lancaster; B.S.Agr., M.S.; Human Ecology
Dr. Kathryn Stafford

Mary Josephine Skillings, Pickerington; B.S. (Ohio University); M.A.; Education
Dr. Gay Su Pinnell
Karyn Denise Thomas, Columbus; B.S. (Kent State University); Health, Physical Education and Recreation

Cheryl Ann Thompson, Columbus; B.S. (Purdue University); Journalism

Jonna Jean Tobin, Fostoria; B.A. (Bowling Green State University); M.A.; Psychology

Yuh-Jen Tsai, Taiwan; R.O.C.; B.A. (National Central University); Education

Kay Frances Wagner, London; B.S.Ed; Education

Joyce Ming-shin Wang, Kaohsiung, R.O.C.; B.A. (National Central University); M.A.; (Asbury College); Economics

Sherrie R. Whaley, Jonesborough, TN; B.S. (East Tennessee State University); Journalism

Robert Crile Wolf, Columbus; B.S. (Asbury College); Economics

Judith S. Woltz, Logan; B.S.; Music

Douglas Glenn Woodburn, Columbus; B.S.Agr.; Education

Yangru Wu, Columbus; B.S. (Zhianjiang Fisheries College); M.A.; (University of Delaware); Economics

Chae-Dog Yi, Pusan, South Korea; B.A., M.A. (Pusan National University); Economics

Jeremy Marc Zilber, Columbus; B.A. (Oberlin College); Political Science

Master of City and Regional Planning

Julie Ann Gafford, Columbus; B.A.; City and Regional Planning

Sherif Kamal Ismail, Muscat & Oman; B.A. (Ohio Dominican College); City and Regional Planning

Michael F. Maloof, Columbus; B.S.Bus.Adm.; City and Regional Planning

Master of Fine Arts

Jean Therese Salzmann, Indianapolis, IN; B.F.A. (Herron School of Art); Art

George Timothy Tyler, Delaware; B.F.A. (Columbus College of Art and Design); Art

Master of Health Administration

Elissa M. Meinhart, Columbus; B.S.Bus.Adm. (Franklin University); Hospital and Health Services Administration

Master of Labor and Human Resources

Mary Ann Clavarro, Dublin; B.S. (Ohio University); Labor and Human Resources

Carl Hicks, Jr., Mansfield; B.A.; Labor and Human Resources

Maria Rowena Nava Malto, Quezon City, Philippines; B.S. (University of the Philippines); Labor and Human Resources

Janelle Ritter Mikusa, Columbus; B.S. Labor and Human Resources

Master of Landscape Architecture

Girish Ramachandran, Bhuban, India; B.Arch. (University of Madras, India); Landscape Architecture

Master of Liberal Studies

Mary Kenney Rumm, Worthington; B.A., (Marquette University); Liberal Studies

Master of Music

Carolyn Sheperd Burns, Houston; B.Mus. (Bowling Green State University); M.A.; Music

Donna Lynne Janusko, Ashland; B.Mus. (Ashland College); Music

Susan Michelle Millard, Columbus; A.B. (Asbury College); Music

Sarah Ellen Wilson, Worthington; B.Mus.; Music

Linda Marie Wojciechowski, Rochester, NY; B.A. (University of Rochester); Music

Master of Public Administration

Linda Carol Coval, Chagrin Falls; B.A.; Public Policy and Management

Denise Leah Knoester, Columbus; B.A.; Public Policy and Management

Michael Regis Ryan, Westerville; B.A.; Public Policy and Management

Huei-Huang Wang, Taiwan, R.O.C.; Bachelor's (National Taiwan University); M.A.; Public Policy and Management

Master of Science

Eric Albert Aebker, Lima; B.S. (Case Western Reserve University); Electrical Engineering

Melissa Lynn Beaver, Piqua; Agricultural Education

Anthony Joseph Bedinghaus, Farmville, IL; Bachelor's (University of Illinois); Animal Science

Dhruvajyoti Biswas, Calcutta, India; B.C.E. (Jadavpur University); Civil Engineering

Michael Jon Boehm, Columbus; B.S. (Heidelberg College); Plant Pathology

Teal Ann Bostantic, Bellaire; B.S.Nurs. (Wheeling Jesuit College); Nursing

Joan Elaine Bowman, Columbus; B.A. (Ohio University); Human Ecology

Thomas Martin Boyle, Rock Creek; B.A. (Borrowme College of Ohio); Microbiology

Christine Carroll Brothers, Ithaca, NY; B.S. (Cornell University); Natural Resources

Glen David Brunner, Ashland; B.E. (University of Dayton); Biomedical Engineering

Kathy Jo Burkholder, Greenville; B.S.Agr.; Agricultural Education

Mary Esther Burns, Philadelphia, PA; B.S., D.M.D. (University of Pittsburgh); Dentistry

Yeping Cai, Shanghai, P.R.C.; B.S. (East China Institute of Chemistry and Technology); Chemical Engineering

Daniel Brian Cary, Lansing, MI; B.S.E.E. (Michigan State University); Computer and Information Science

Juan Modesto Chavez, Santo Domingo, Dominican Republic; B.S. (Universidad Autonoma de Santo Domingo); Agronomy

Yong-Ching Chen, I-Lan, Taiwan, R.O.C.; B.S., M.S. (Tatung Institute of Technology); Metallurgical Engineering

Bin-Haw Chiou, Taiwan, R.O.C.; B.S. (Tsing Hua University); Chemistry

Janet Lucille Collins, Kettering; B.S. (Southern College); Nursing

Sheila Mary Collins, Northfield; B.S.N. (Capital University); Nursing

Linda S. Condron, Columbus; B.S., M.A.; Computer and Information Science

Lynley Janeen Conrad, Milford; B.S.Agr.; Agricultural Education

Joyce Durnwald Cramer, New Washington; B.S.N. (Ohio University); Nursing

Christopher Robin Dalton, Mosinee, WI; B.S. (University of Wisconsin-Madison); Chemistry

Daniel Heckel Davis, McConnelsville; B.A. (Miami University); Pathology

Andrew Sherman Dean, Columbus; B.S.I.E. (Purdue University); Computer and Information Science
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>University/Institution</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jamie Lynn De Lorenzo</td>
<td>B.S. NURS.</td>
<td>Portsmouth</td>
<td>Nursing</td>
</tr>
<tr>
<td>Donna Sue Dimski</td>
<td>B.V. M.</td>
<td>Texas A&amp;M University</td>
<td>Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Jon Frederick Dirke</td>
<td>B.S.C.E.</td>
<td>Midland</td>
<td>Ceramic Engineering</td>
</tr>
<tr>
<td>Peter John Dix</td>
<td>B.S.</td>
<td>Milwaukee</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Stephanie Anne Dixon</td>
<td>B.S.</td>
<td>Cincinnati</td>
<td>Computer and Information Science</td>
</tr>
<tr>
<td>Barbara Kemp Duerr</td>
<td>B.S. NURS.</td>
<td>Malone</td>
<td>Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Mary Beatrice Abyasekara</td>
<td>B.A.</td>
<td>Katmandu</td>
<td>Nursing</td>
</tr>
<tr>
<td>Margaret Mary Farrell</td>
<td>B.S.</td>
<td>Brockton</td>
<td>Nursing</td>
</tr>
<tr>
<td>Andrea Lynne Englehart</td>
<td>B.S.</td>
<td>Perrysville</td>
<td>Nursing</td>
</tr>
<tr>
<td>John David Kruzan</td>
<td>B.S.</td>
<td>Dublin</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Julie Lynn Geiger</td>
<td>B.S. NURS.</td>
<td>Dayton</td>
<td>Nursing</td>
</tr>
<tr>
<td>Abdelmajid Ghazzouine</td>
<td>B.S.</td>
<td>Marrakesh</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
<tr>
<td>Gail Louise Tuttle Stall</td>
<td>B.A.</td>
<td>Columbus</td>
<td>Nursing</td>
</tr>
<tr>
<td>John Howard Greenwald</td>
<td>B.S.</td>
<td>B.S. Electrical Engineering</td>
<td></td>
</tr>
<tr>
<td>Dennis Patrick Grusenmeyer</td>
<td>B.S.</td>
<td>Dayton</td>
<td>Dairy Science</td>
</tr>
<tr>
<td>Diane Louise Habash</td>
<td>B.S.</td>
<td>Columbus</td>
<td>Nursing</td>
</tr>
<tr>
<td>Laura Lynn Hartman</td>
<td>B.S.</td>
<td>Cornell University</td>
<td>Horticulture</td>
</tr>
<tr>
<td>Sharon Sue Hawley</td>
<td>B.S.</td>
<td>Columbus</td>
<td>Nursing</td>
</tr>
<tr>
<td>Rita Marie Helvoigt</td>
<td>B.S. NURS.</td>
<td>Otterbein College</td>
<td>Nursing</td>
</tr>
<tr>
<td>Holly Lynn Herron</td>
<td>B.S.N.</td>
<td>Columbus</td>
<td>Nursing</td>
</tr>
<tr>
<td>Hsieh-Lung Hsu</td>
<td>B.S.</td>
<td>National Chung-Hsing University</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Tzong-Yow Hwu</td>
<td>B.S.</td>
<td>Taiwan</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>John Steven Kaminski</td>
<td>B.A.</td>
<td>University of Akron</td>
<td>Human Ecology</td>
</tr>
<tr>
<td>Edward C. Kennedy III</td>
<td>M.S.</td>
<td>Fremont</td>
<td>Agricultural Education</td>
</tr>
<tr>
<td>Susan Lynn Ketchner</td>
<td>B.S.</td>
<td>OSU Biochemistry Program</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>James John Klocinski</td>
<td>B.S.</td>
<td>Columbus</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Kalpana Krothapalli</td>
<td>B.S.</td>
<td>Madras University</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
<tr>
<td>John David Kruzan</td>
<td>B.S.</td>
<td>Miami University</td>
<td>Physics</td>
</tr>
<tr>
<td>Scott Gene Kurz</td>
<td>B.S.</td>
<td>Oakland</td>
<td>Animal Science</td>
</tr>
<tr>
<td>Santanu Lahiri</td>
<td>B.S.</td>
<td>Calcutta College</td>
<td>Computer and Information Science</td>
</tr>
<tr>
<td>Euiwoo Lee</td>
<td>B.S.</td>
<td>Seoul</td>
<td>Human Ecology</td>
</tr>
<tr>
<td>Shyh-Tsong Lee</td>
<td>B.S.</td>
<td>Taiwan</td>
<td>Geodetic Science and Surveying</td>
</tr>
<tr>
<td>Jasmine Yan-ling Liao</td>
<td>B.S.</td>
<td>Beijing</td>
<td>Welding Engineering</td>
</tr>
<tr>
<td>Lynn Krise Lyon</td>
<td>B.S.</td>
<td>Columbus</td>
<td>Human Ecology</td>
</tr>
<tr>
<td>Anang Mashudi</td>
<td>B.S.</td>
<td>Malang</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
<tr>
<td>Brian Eric Maves</td>
<td>B.S. Pharm.</td>
<td>Toledo</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Margaret Jane McKivergin</td>
<td>B.S. NURS.</td>
<td>Charleston</td>
<td>Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Arthur Samuel McMillan</td>
<td>B.S. Agr.</td>
<td>Warsaw</td>
<td>Animal Science</td>
</tr>
<tr>
<td>John Thomas Mehr</td>
<td>B.S. E.E.</td>
<td>Columbus</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Madhu Omprakash Mittal</td>
<td>B.S.</td>
<td>Bombay</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Ali Moghaddar</td>
<td>B.S. E.E.</td>
<td>Columbus</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Stanley Ross Mohler</td>
<td>B.S.</td>
<td>Bethesda</td>
<td>Broadview Heights</td>
</tr>
<tr>
<td>Anang Mashudi</td>
<td>B.S.</td>
<td>Malang</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
<tr>
<td>Jasmine Yan-ling Liao</td>
<td>B.S.</td>
<td>Beijing</td>
<td>Geodetic Science and Surveying</td>
</tr>
<tr>
<td>Lynn Krise Lyon</td>
<td>B.S.</td>
<td>Columbus</td>
<td>Human Ecology</td>
</tr>
<tr>
<td>Anang Mashudi</td>
<td>B.S.</td>
<td>Malang</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
<tr>
<td>Brian Eric Maves</td>
<td>B.S. Pharm.</td>
<td>Toledo</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Margaret Jane McKivergin</td>
<td>B.S. NURS.</td>
<td>Charleston</td>
<td>Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Arthur Samuel McMillan</td>
<td>B.S. Agr.</td>
<td>Warsaw</td>
<td>Animal Science</td>
</tr>
<tr>
<td>John Thomas Mehr</td>
<td>B.S. E.E.</td>
<td>Columbus</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Madhu Omprakash Mittal</td>
<td>B.S.</td>
<td>Bombay</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Ali Moghaddar</td>
<td>B.S. E.E.</td>
<td>Columbus</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Stanley Ross Mohler</td>
<td>B.S.</td>
<td>Bethesda</td>
<td>Broadview Heights</td>
</tr>
<tr>
<td>Anang Mashudi</td>
<td>B.S.</td>
<td>Malang</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
<tr>
<td>Jasmine Yan-ling Liao</td>
<td>B.S.</td>
<td>Beijing</td>
<td>Geodetic Science and Surveying</td>
</tr>
<tr>
<td>Lynn Krise Lyon</td>
<td>B.S.</td>
<td>Columbus</td>
<td>Human Ecology</td>
</tr>
<tr>
<td>Anang Mashudi</td>
<td>B.S.</td>
<td>Malang</td>
<td>Agricultural Economics and Rural Sociology</td>
</tr>
</tbody>
</table>
John Phillip Schmidt, Columbus; B.M.E.; Assoc. App. Business (Columbus State Community College); Natural Resources

Hallie Jean Serazin, Powell; B.A. (Miami University); Environmental Biology

Wendy Sheeran, Lake Villa, IL; B.S. (Bradley University); Environmental Biology

Yu-Feng Shih, Tao, Yuan, Taiwan, R.O.C.; B.S. (National Cheng Kung University); Geodetic Science and Surveying

Jein Shyue, Taiwan, R.O.C.; B.S. (National Cheng-Kung University); M.S. (University of Maryland); Metallurgical Engineering

Michael Lee Snedden, Zanesville; B.S.E.E.; Electrical Engineering

Cheunsoon Song, Seodaemoon-Koo, South Korea; B.S. (Ewha Women's University, Seoul); Human Ecology

Cathleen Joan Strauch, Columbus; B.S.N. (Capital University); Nursing

Subash Sundaresan, Ellicott City, MD; B.Tech. (Indian Institute of Technology); Computer and Information Science

Randall Stuart Swartz, Winnipeg, Manitoba, Canada; B.S. (University of Manitoba); Biomedical Engineering

Sandra Mary Thomas, Findlay; B.S.Agr.; Agronomy

Yu-Yang Tsai, Panchiao, Taiwan, R.O.C.; B.S. (Chinese Culture University); Geodetic Science and Surveying

Angeliki D. Tsereli, Filiatra, Greece; Bachelor's (University of Athens); Physics

Lynn Elizabeth Tyler, Westerville; A.B. (Kenyon College); Preventive Medicine

Manish Vaishya, Gwalior, India; B.Tech. (Indian Institute of Technology, Kanpur); Mechanical Engineering

Kristin Ann Vanecko, Gahanna; B.S.; Microbiology

Kui Shin Voo, Kota Kinabalu Sabah, Malaysia; B.S.Agr.; Agronomy

John Thomas Watts, Newark; B.A. (Otterbein College); Natural Resources

Jonathan Byron Waugh, Kissimmee, FL; B.S. (University of Central Florida); Allied Medical Professions

Scott Alan Westfall, Marysville; B.S.; Chemical Engineering

Carl Henry Wheeler, Grove City; D.D.S.; Dentistry

Aung Win, Rangoon, Burma; B.S. (Rangoon Arts and Science University); Horticulture

Timothy Lee Wright, Columbus; B.S.M.E. (Lawrence Institute of Technology); Mechanical Engineering

Lin Wu, Columbus; Hubei, P.R.C.; B.S. (Huazhong Agricultural University); Zoology

Dimitrios G. Xenikos, Athens, Greece; Bachelor's (University of Athens); Physics

Shaning Yu, Columbus; B.S. (Huanan Institute of Mining, China); M.E. (McGill University); Mining Engineering

Master of Social Work

Brenda Sue Sanford, Bellefontaine; B.A. (Miami University); Social Work

Stacy Jo Tague, Chillicothe; B.S.Soc.Wel.; Social Work
Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

College of the Arts

Dean: Donald Harris

Bachelor of Arts

Laurie Ann Brocker, Columbus
David Wayne Christopher, Galion
John Harold Holonitch, Upper Arlington
Jolene Jen Jackson, Perrysburg
Laura Anne Planitzer, Columbus
Melodie Ann Dombrowski, Tiffin
Darryl Jerome Davis, Cincinnati
Bernard Leo Noga, Cleveland
Robert M. Arkin, Newington, CT

Bachelor of Fine Arts

Raymond Judson Beach, Marietta
James Richard Cappellietti, Jr., Shaker Heights
MargaretPanthera, Columbus
Gregory Scott Lewis, Gahanna
Leonard Allen Cuilli, Cleveland
Ernie Lee Hay, Canal Winchester
Karen Lynn Theis, Youngstown
Karen Donahue Thomas, Columbus
William Thomas Vargo, Columbus
Rene David Garcia, Xenia

Bachelor of Music

Jeffrey Scott Bonk, Buffalo, NY
Andrew T. Woodson, Columbus

Bachelor of Art Education

Karen M. Kreutzfeld, Port Clinton
Kimberly Ann Markusic, Dublin

Bachelor of Education

Kim Chandra Covell-Sewell, Columbus
Suzanne Csejtey, Cuyahoga Falls

Bachelor of Music Education

Jeffrey Alexander Freytag, Sidney
Matthew Shane Henry, Dayton
Melissa Jane Montgomery, Columbus
Jane Victoria Smith, Columbus

Bachelor of Science in Audio Recording

Michael William Creadon, Medina
Joseph Dean Svoboda, Worthington

College of Biological Sciences

Acting Dean: Gary L. Floyd

Bachelor of Arts

David Douglas Nesbitt, Kettering
Melody Vyvyan Romaine, Huntington, WV
David Lindell Zid, Columbus

Bachelor of Science

Paul Edward Bachmann, Akron
Shirly Talia Benatar, Columbus
Christopher Edward Bryniarski, Lansing
DeniseEllen Chase, Columbus
David Claude Clifford, Akron
Todd Neal Corbett, Columbus
Wendy Sue Drake, Columbus
Nancy Lynn Elish, North Olmsted
Ronald Allen Fodo, Seven Hills
Monica Leah Litsky, Pickerington

College of the Arts

Dean: G. Micheal Riley

Bachelor of Arts

Philip Turner Adornetto, Zanesville
Kathleen Barone, Westerville
Jeanne Marit Barry, Parkensburg, WV
CathleenMarie Wolick, Fairview, PA

Bachelor of Musical Arts Education

Jeffrey Alexander Freytag, Sidney
Matthew Shane Henry, Dayton
Melissa Jane Montgomery, Columbus
Jane Victoria Smith, Columbus

Bachelor of Music Education

Jeffrey Alexander Freytag, Sidney
Matthew Shane Henry, Dayton
Melissa Jane Montgomery, Columbus
Jane Victoria Smith, Columbus

Bachelor of Science in Audio Recording

Michael William Creadon, Medina
Joseph Dean Svoboda, Worthington

College of Biological Sciences

Acting Dean: Gary L. Floyd

Bachelor of Arts

David Douglas Nesbitt, Kettering
Melody Vyvyan Romaine, Huntington, WV
David Lindell Zid, Columbus

Bachelor of Science

Paul Edward Bachmann, Akron
Shirly Talia Benatar, Columbus
Christopher Edward Bryniarski, Lansing
DeniseEllen Chase, Columbus
David Claude Clifford, Akron
Todd Neal Corbett, Columbus
Wendy Sue Drake, Columbus
Nancy Lynn Elish, North Olmsted
Ronald Allen Fodo, Seven Hills
Monica Leah Litsky, Pickerington

Bachelor of Education

Jeffrey Alexander Freytag, Sidney
Matthew Shane Henry, Dayton
Melissa Jane Montgomery, Columbus
Jane Victoria Smith, Columbus

Bachelor of Science

Paul Edward Bachmann, Akron
Shirly Talia Benatar, Columbus
Christopher Edward Bryniarski, Lansing
DeniseEllen Chase, Columbus
David Claude Clifford, Akron
Todd Neal Corbett, Columbus
Wendy Sue Drake, Columbus
Nancy Lynn Elish, North Olmsted
Ronald Allen Fodo, Seven Hills
Monica Leah Litsky, Pickerington

Bachelor of Education

Jeffrey Alexander Freytag, Sidney
Matthew Shane Henry, Dayton
Melissa Jane Montgomery, Columbus
Jane Victoria Smith, Columbus

Bachelor of Science

Paul Edward Bachmann, Akron
Shirly Talia Benatar, Columbus
Christopher Edward Bryniarski, Lansing
DeniseEllen Chase, Columbus
David Claude Clifford, Akron
Todd Neal Corbett, Columbus
Wendy Sue Drake, Columbus
Nancy Lynn Elish, North Olmsted
Ronald Allen Fodo, Seven Hills
Monica Leah Litsky, Pickerington

Offered by the College of the Arts

Offered jointly by the College of the Arts and the College of Education

779
College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Randall Jay Edwards, Columbus, Ohio
Andrea Christine Azar, Akron
Jean Cathy Belfiore, Beachwood
Richard William Bird, Lakeside
Michelle Elizabeth Boch, Upper Arlington
Kerry Sue Bogard, Valley City
Patrick James Boone, Strongsville
Timothy Harrison Bowers, Liberty Center
Kristen Kay Brewer, Medina
Elizabeth Burns, Ashland
Vera Ellen Byrd, Hilliard
Scott David Callahan, Concord Township
Theresa Ann Cardinal, Columbus
Carolyn Kathleen Caron, Canton
Holly Anne Coen, Wooster
Lora Marie Cole, Newark
Edward James Cox III, Columbus
Theresa Lynn Davis, Columbus
Jana Marie Dieperean, Granville
Bret Renee Dorbach, Columbus
Daniel Sean Dugan, Cincinnati
Jenny Lynn Dunham, Mansfield
Laura Elizabeth Dupinace, Perrysburg
Jeffrey Michael Dunn, Hubbard
LaVonne Renee Dye, Moreland Hills
Scott Taylor Eliot, Lakeville
Jeannet Loretto Epstein, Columbus
Marisa Faccinini, Girard
James Edward Farrell III, Bristolville
Tara Vidette Fazzari, Toledo
Rachel Ann Feole, Galena
Stephen Earl Findley, Cincinnati
Gary Alan Flesham, Columbus
Ronald Keith Floriancic, Columbus
Brian Alan Ford, Columbus
Gayle William Fox, Columbus
Kathy Jo Fox, Columbus
Christine A. Franz, West Salem
Jacqueline Parsley Gebbie, Dublin
Herbert John Gillen, Upper Arlington
William Fred GoForth, Westerville
Craig Alan Gordon, Upper Arlington
Brian Keith Gould, Upper Arlington
Susan M. Gregorek, Columbus
Kathleen Ann Haines, Johnstown
Jennifer Anne Hale, Delaware
Vivian Anita Hall, Columbus
Diane Elizabeth Hambright, Worthington
Christopher Willard Helberger, Columbus
Jennifer Lynn Hiecker, Columbus
Lydia Patricia Hensley, Columbus
Mark Albert Herder, Upper Arlington
Heather Lyn Hewitt, Toledo
W. David Hill, Dublin
Kathy Jean Hinchliff, Jr., Dayton
Lisa Anne Hodkinson, Columbus
Amy Reiling Homan, Kettering
Christopher Robert Houkau, Solon
Deidrick W. Howard, Middletown
Wendy Kathleen Hrach, Sagamore Hills

Bachelor of Science

William Charles Paris III, Walnut Creek, CA
Kenneth Jerold Perelman, Cleveland Heights
Beth Ellen Pollock, New Albany
Bobette Alene Ressa-Moritz, Delaware
Constance Sue Richards, Columbus
Deborah Jean Rivera, North Ridgeville
Carrie Griswold Ruge, Rocky River
Amber Elise Saunders, Columbus
Julia Ann Sekus, Worthington
Timothy Allen Shepard, Columbus
Sandra Elizabeth Shillington, Columbus
Lisa Ann Singleton, New Albany
Roger Steven Slain, Beachwood
Michael Anthony Stolzenburg, Cleveland
David Brian Sugar, Columbus
Benjamin Zulkifli Sutandar, Medina
Matthew Allen Topp, Worthington
Randall James Treffethern, Poland
Cynthia G. Tsiropoulou, Chillicothe
Adam D. Turkelson, Lebanon
Todd Albert Ulbrich, Jefferson
Maria A. Voulgaris, Columbus
Lanette Rochelle Wade, Columbus
Christopher Stephan Walhey, Columbus
Lori Ann Wilson, East Liverpool
Shannon Lee Wilson, Lynchburg
Kerry Grace Yantis, Columbus

College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Science

Pooya Alasedini, Columbus
Monica Lynn Bishop, Louisville, KY
Velicia Maria-Lynn Brown, Washington, DC
Amy Elizabeth Busick, Columbus
Rajshree Char, Columbus
Mario Cuttler Conol, Jr., Tiffin
Thomas Walberg Early, Bexley
Alan Scott Frishman, Portage
Seann Alexander Gibson, Columbus
Howard Michael Harris, Columbus
Shannon Leann Harrison, New Carlisle
Ryan Thomas McMahon, Hudson
Susan Marie Mund, Fairlawn
Zuriel Isaac Nagar, Rosh-Haayin, Israel
Kectrin Commons Nadigan, Johnstown
Daniel Bernard Taven, Lyndhurst
Richard F. Taylor, Sebring
Grace Ann Yap, Worthington

Joseph Todd Hylton, Columbus
Arthur Jay Jarvis, Kent
Janine Marie Jakim, Columbus
Norma Jean Jalovec, Euclid
Julie Renee Jaynes, Columbus
Eric Anthony Jones, Worthington
Thomas Allan Jones, Doylestown, PA
Marjorie Elaine Justice-Cuthbert, Columbus
Monica W. Kaminski, Columbus
Christopher Nicholas Karageorge, Toledo
Kathleen Marie Kelly, Delaware
Todd Anthony Kempton, Massillon
Steven Earle Knowland, Lima
Maryan Demetrios Kollas, Lorain
Michael Edward Krawiec, Darien, CT
Alfred Joseph Lane, Jr., Shawnee Mission, KS
Thomas James Leonard, Jr., Gahanna
Michael Gerard Lake, Marysville
Mary Beth Litareal, Worthington
Orlando Ricardo Lopez, Miami, FL
James Nicholas Lotton, North Hampton
Julie Anne Luckich, Columbus
Michael George Lukus, Doylestown
Lorraine Marchiano, Medina
Jeffrey Allen Mathes, Columbus
William Eugene Matlock, Columbus
Kimberly Sue McConnell, Caldwell
Randall T. McGee, Columbus
Shannon Ann McKinley, Toledo
Katherine Jill McLane, Columbus
Dina Krystine Mehta, Columbus
Mark Alan Michael, Upper Arlington
Linda Kay Mizer, Columbus
Sabrina Monds, Dayton
Jona Scott Mullins, Mendon
Tamarra Lynne Nichols, Akron
Asa Johanna Nilsson, Carmel, NY
Lea Marie Nolan, Lakewood
Dale Michael Northhausen, Cincinnati
Jessica North Oaks, Upper Arlington
Kathleen Anne O'Brien, Euclid
Erin Elizabeth O'Connell, Canton
Colleen Michelle O'Hara, Mentor
Mary Elizabeth Orin, Massillon
Brett T. Owens, Jr., Bethel Park, PA
Michele Maxine Palte, Mill City
William B. Parker, Jr., Lodi
Laura Jean Pasqualone, Geneva
Kathy Jean Perigolesi, Bellevue
James Michael Piat, Akron
Ann Marie Plishner, Zanesville
Valerie Lou Plante, Massillon
Thomas Edward Pol, Versailles
Frank Powers, Jr., Youngstown
David Scott Preston, Powell
Rebecca Lynn Raatz, Maumee
Roseanne Catherine Rakovan, Chardon
Ted William Rau, Columbus
Victoria Lynn Reese, North Olmsted
Scott William Renshaw, Columbus
Marlene Marie Repko, Madison
Constance Sue Richards, Columbus
Dwight Lee Riley, Jr., Cincinnati
Lara Lynn Roholt, Saint Cloud, MN
Christine Nanette Romine, Newark
Laura Lynn Rupert, Bedford
Tanja Maria Sattler, Columbus
Paul Robert Schlaak, Huron
Joseph Donald Sculli, Cantonfield
Andrew Lawrence Segal, Columbus
Robert George Severance, Baltimore, MD
Robert Todd Sexton, Dayton
Yi-Wei Shi, Taiwan, R.O.C.
Michael Paul Sinay, Massillon
Robert Lee Solis, Leipsic
Michele Lynn Sonderman, Columbus
Joseph Donald Spagnuolo, Brecksville
Jennifer Claire Stauffer, Columbus
Scott Lee Strayer, Sylvania
Mary Sullivan, Columbus
Rhonda Lynn Sweat, Steubenville
Laura Anne Temple, Centerville
Debra Ann Timko, Upper Arlington
Thomas Scott Tipton, Columbus
Nicole Tosi, Columbus
Daniel A. Truax, Loudonville
D'Wayne Scott Tupper, Youngstown
Matthew L. Turner, Detroit, MI
William Venter III, Wadsworth
Ann Michele Warburton, Upper Arlington
Chris Eric Watson, Mansfield
Nancy Ellen Weimer, Columbus
Debra Ann Weisgerber, Westerville
Lanny D. Welly, Westerville
Brad Phillip Wheeler, Grove City
Richard Wilmot Whitehead, Dublin
James Vincent Yaconis, West Deer, PA
Anthony Jerome Zacharyasz, Berea
Caroline Zola, Columbus

Bachelor of Science
Ashley Albert Ayers, Columbus
Michael Chester Barnetti, Columbus
Barbara Bartok, Columbus
Dayne Ellemann Collins, Columbus
Harold Todd Cummings, Hillsboro
Robert Christopher Fadung, North Canton
Kevin Craig Gibson, Youngstown
Michele Ann Hengle, Fairlawn
Jeffrey Alden Jacot, North Canton
Tracy Lee Love, Hamilton
Karli Renee Manbeck, Indiana, PA
Curt David Metzger, Columbus
Roberta Kaye Moseley, Greenfield
David Alan Nuccio, Mayfield
Perry Ray Parsons, Richwood
Christopher John Patrino, Akron
Roy Harold Pierson, Columbus
Cordell James Pride, Dayton
Chrisitis George Tombazos, Nicosia, Cyprus
Carol Lynn Towers, Coshocton
Denise Ann Valdes, Columbus
David Leslie Wirt, Centerville

School of Journalism
Bachelor of Arts in Journalism
R. Sean Allen, Worthington
Rita Louise Andrews, Columbus
Maria Cristina Averton, Pomeroy
April Lynn Belt, Marietta, GA
Lisa Antoinette Bencic, Westlake
Stephanie Ann Blajczak, Columbus
Diane Marie Blateri, Columbus
Karen Lynn Brown, Worthington
Katherine Kihn Buchmueller, Rocky River
Deborah Ann Bysura, Hiram
Sondra Lynn Cantrell, West Jefferson
James Lee Cashwell II, Jacksonville, FL
Alex Shon Childers, Galloway
Kathleen Susan Clark, Chardon
Jana Darlene Clinger, Ontario
Nadine B. Collins, Cleveland Heights
Barbara Kay Connors, Westerville
William Lewis Derling, Cincinnati
Diane Renée Dowjak, Newark
Lila Lee Eidi, Toledo
David John Friel, Cincinnati
Molly Elizabeth Greenzalas, Columbus
Carleen Rae Hill, Pickerington
Darlene Marcia Hill, Toledo
Heather Ann Iversen, Huron
Jennifer M. Jenkins, Westerville
Lynnette Renee Klessig, Pepper Pike
Julie Christine Leist, Circleville
Lisa Fay Lombard, Columbus
Andrew Guy Marcelain, Newark
Charles Ellis Matsasik, Proctorville
Meredith Joan Mcgaughey, Columbus
Vincent Edward Mcgrail, Zanesville
Cynthia Marguerite Moore, Columbus
Rebecca Lynn Mugler, Toledo
Steven John Myers, Huron
Ronald Edward Newman, Jr., Canton
William James Nieberding, Versailles
Kya Elisabeth Nolan, Shaker Heights
Anisa Marianne Pollina, Worthington
Jeanannemie Rich, Youngstown
Anne Elizabeth Rodgers, Cleveland Heights
Faye Irene Rosen, Columbus
Jacqueline Diane Siff, Lancaster
Scott Gerard Suddlemiere, Cincinnati
Gerald Wayne Sulters, Hilliard
Laura Alice Schlund, Solon
Todd Richard Sharrock, Galion
Dennis Alan Shaw, Columbus
Robert Ryan Shielz, Cincinnati
Sandra Lynne Smith, Dayton
Wendy Ann Somerson, Columbus
Susan Joanna Stollmaier, Terrace Park
Deborah Ann Strafella, Columbus
Sandra Jean Vincent, Steubenville
Craig Jennings Vollmer, Virginia Beach, VA
Jeffrey Allen Wallace, Columbus
Vincent Edward Ware, Dayton
John Robert Weinandy, Tiffin
Matthew D. Weinland, Springfield
Jon Berenston Weiss, John Joseph Saltzman III, Ada
John Robert Schweizer, Oregon
Donald William Search, Columbus
Robert Dale Seymour, Jr., Worthington
Robert Kay Smith, Marietta
Steven Lee Smith, Cadiz
Paul Stephen Soehnlen, Canton
Duane Losch, St. Mary's
Jeffrey Ward Stouferburg, Westerville
Colleen Anne Sundholm, Eldred, NY
Adam Edwin Taylor, New Holland
Michael Anthony Thiel, Under Sandusky
Jeffrey Allen Tomlin, Hamersville
Thomas J. Wagner, Bloomdale
Jeffery Frank Wall, New Riegel
David Michael Weibel, Ashville
James W. Westendorf, Springdale
Gary Duane Williams, South Vienna

College of Agriculture
Bachelor of Science in Agriculture
David Alan Abernathy, Columbus
Cynthia Ann Aichholz, Attica
Neil Paul Badenhop, Wauseon
Melissa Lynn Beaver, Piqau
Brad Robert Bergefurd, Fremont
Todd James Bishop, Fostoria
Jennifer Ann Brinkman, Arlington
Bradley Lee Bruns, Columbus
James Franklin Carter, Jr., Cygnet
Kelly Lynn Cline, Albany
Scott James Colvin, West Salem
Jenny Lynn Conway, Urbana
Harold Douglas Croft, Keene
Constance Eve Cullin, Marysville
August Anthony Dattilo, Strongsville
Steven Scott Deam, Springfield
Amy Lynn Drott, Béthel
Brooks Edward Duffie, Camden
Jodie Yarhouse Duffy, Harrod
Valerie Frey, Willshire
Jeffrey Dennia Hay, Bellevue
David Christopher Henkis, South Vienna
Laura Sue Higgins, Hillboro
Kerry C. Hughes, Kenton
Barton Douglas Kayser, Greensburg, PA
Michael Alan Kirsch, Bellevue
Lori Ann Kies, Canal Winchester
Steven Clark Knobel, Cincinnati
David M. Koch, Westerville
Hartko Kolopaking, Lawang-Jatim, Indonesia
Shu Ming Lim, Tawau, Sabah, Malaysia
Heidi Lynn Long, Galion
Michael Thomas Maxwell, Granville
Gregory Allen Meyer, Fremont
Michael Allan Molnar, Lichfield
David Glen Myeholtz, Gibsonburg
Mark Andrew Novotny, Youngstown
James David Petis, Richfield
Jonathan Ned Rausch, Marysville
Kenneth David Sadd, Mentor
John Joseph Saltzman III, Ada
William Edward Schweizer, Oregon
Donald William Search, Columbus
Robert Dale Seymour, Jr., Worthington
Roberta Kay Smith, Marietta
Steven Lee Smith, Cadiz
Paul Stephen Soehnlen, Canton
Duane Losch, St. Mary's
Jeffrey Ward Stouferburg, Westerville
Colleen Anne Sundholm, Eldred, NY
Arthur Edwin Taylor, New Holland
Michael Anthony Thiel, Under Sandusky
Jeffrey Allen Tomlin, Hamersville
Thomas J. Wagner, Bloomdale
Jeffery Frank Wall, New Riegel
David Michael Weibel, Ashville
James W. Westendorf, Springdale
Gary Duane Williams, South Vienna
Bachelor of Science in Food Science
Carl Andrew Bonifas, Venedocia
Jerome Phillip Campbell, Minerva
Susan Marie Fawcett, Columbus

Bachelor of Science in Food Technology
Maria Teresa Campo, Cleveland
Darren Scott Davis, Columbus
Vincent Reade Kramer, Van Wert

Bachelor of Science in Nutrition
Emmanuel Chidi Ezirim, Columbus
Sherman Arthur Stevenson, Jackson

School of Natural Resources
Bachelor of Science in Natural Resources
Linda Gail Belfer, Cleveland Heights
Cindie Elizabeth Billich, Findlay
David Peter Chrisman, Granville
Bradley Steele Couch, Vandalia
Jill Rochelle Drabick, Richmond
Ann Michele Gingrich, Beavercreek
Debra Louise McKinley, Reynoldsburg

Agricultural Technical Institute—Wooster
Associate in Applied Science
Lewis E. Ballard, Marysville
David Joseph Blaha, Seven Hills
Michael Dean Bowman, Creston
John Floyd Brutsche I, Lexington
Dana Ros Carey, Millenburg
Todd Eric Cotterman, Jefferson
Lisa Marie Eliot, Lakeville
Matthew D. Ewing, Columbus
Gregory Allen Fuller, Fairview Park
Daniel James Hart, Apple Creek
Sherry Ann Hayden, Orwell
Kevin Richard Houseal, New Philadelphia
Matthew Monroe Lantz, Fremont
Thomas D. McCord, Wooster
Paul Fredrick Meyer, Amherst
Robert L. Miller, Jr., Canton
Roy Dalton Montan, New Philadelphia
Albert Thurman Nelson, Belpre
David Michael Owens, Steubenville
John David Petitti, Valley View
Dana S. Ponzani, St. Clairsville
Deborah Marie Spence, Lucas

Associate in Technical Study
Lisa Renee Jackson, Wooster

College of Business
Acting Dean: Astrid E. Merget

Bachelor of Science in Business Administration
Vicki Lynn Airhart, Warren
Asad Abbas Ali, Islamabad, Pakistan
Geraldino Amante Almazan, Mansfield
Stephen Eugene Angus, Circleville
Michael Thomas Arena, Bexley
Floyd Douglas Armfield, London
Matthew James Arnold, Sunbury
Robert Edward Askew, Marion
Thomas W. Atkinson, Mt. Vernon
Jimmie L. Atkins, Independence
James Dean Ballinger, Lima
Kathryn E. Balogh, Bay Village
Jeff Russell Bankey, Fredericktown
Bradley William Barnhill, Englewood
Paula Marie Basta, Niles
Steven L. Beck, Columbus
Hatem B. Benjamin, Columbus
James Robert Benson, Bucyrus
Scott William Berry, Norwalk
Todd Matthew Berry, Columbus
Michael Louis Blotta, Fairfield
Ronald Edward Bleiweiss, Bexley
Peter Alexander Bonin, Hamilton
Mark Paul Borling, Brunswick
Melanie Ann Bowes, Boardman
Lynn Ann Bowman, Newark
Jeffrey Michael Breese, South Charleston, WV
Todd Allen Bresson, Lima
William Edwin Buehner, Mayfield Heights
Randall Scott Buffenbarger, Lima
Charles Alan Burton, New Albany
Brian David Burestein, Cincinnati
Brian Joseph Caiazzia, Canton
Beth Anne Campbell, Heath
Christie A. Campbell, Columbus
Nancy L. Campbell, Winchester
Kimberly Anne Castrodale, Columbus
Michael David Chambers, Columbus
Thean Ho Chan, Singapore
Jacychun Naznette Chevrier, Mansfield
Jeffrey Allen Christy, Columbus
Christopher W. Clucus, Columbus
Douglas L. Cole, Mt. Blanchard
Stephen Duane Collins, Grove City
Christopher Jay Conley, Upper Arlington
Peter Nick Constantinides, Columbus
Christopher Scott Cooper, Wheelersburg
Todd M. Cox, Mentor
William Harold Crawford, Reynoldsburg
Larry Dabbis, Jr., Westerville
Timothy J. Daniel, Columbus
Cynthia Beth Diaz, Gahanna
Kevin F. Dill, Walton Hills
Christopher Lee Donohue, Ironton
John Anthony Draeger, Troy
Leslie Joan Drayer, Hilliard
Scott Alan Drumm, Westlake
Diana Lynn Dunham, Dayton
Joel Edward Edgerman, Anderson, IN
James Morgan Elliott, Beverly
Susan Elizabeth Enneking, Dublin
Darryl William Everett, North Olmsted
Joseph Anthony Farinacci, Hudson
Sabrina Katherine Farnsworth, Elyria
Fayer Ramzy Fayer, Manama, Bahrain
Arlene Carol Feddersen, Columbus
Mark Steven Flickinger, Gahanna
Sara L. Fouke, Hillsborough, NJ
Duane Scott Frank, Copley
Reed A. Frankel, Novi
Thamie J.H. Freeze, Canton
Renée AnneFriebel, Shelby
David B. Fremy, Upper Arlington
David Allen Furse, Barnesville
Sherri Ann Gaston, Upper Arlington
Melanie Ann Gengler, Delphos
Khushwant S. Gill, Mentor
Stephen Jay Gitson, Youngstown
Patrick Joseph Giuntz, Bexley
Joyce Elizabeth Goodwin, Brunswick
John Joseph Graham, Columbus
Margaret Mary Grannan, Cincinnati
Jeffrey Siegfried Green, Springfield
Kristine Hall, Powell
Robin Renée Hance, Archbold
Jeffrey Lane Harkleroad, St. Mary’s
Todd Christopher Hartline, West Carrollton
Rasheeda Diana Hassanali-McCorkle, San Fernando, Trinidad
Matthew Joseph Heenan, Akron
Robert James Held, Columbus
Lisa F. Hill, Columbus
Patrick David Hodous, South Euclid
William Eugene Holtz, Ironton
Kendra Ann Hoot, Bowling Green
Jay Christopher Hweluk, Columbus
David William Hughley, Galesburg, IL
Maris Louise Humbert, Columbus
Caroline J. Jack, Buffalo, NY
Larzy Boyd Johnston, Columbus
Jeffrey Glendinning Jones, Cincinnati
Thomas David Jones, Albemarle, NC
Gui Kahl, Williamsville, NY
Joel Marc Kahn, Cleveland
Kenneth Edward Katz, Columbus
Shelly Milligan Kavanaugh, Mansfield
Barbara Jane Korns, Columbus
Bradley S. Kern, Columbus
David Kern, Akron
Thomas Charles Kipfer, Kingston, NY
Oliver Jeffrey Klar, Cleveland
John Richard Kliima, Spencerville
Indiyah Kelopeking, Lawang, Indonesia
Barbara Caroline Koman, Stratham, NH
Thomas Gerald Kraft, Gahanna
Sandra Michelle Kresse, Lyndhurst
Joseph Kuemlin, Columbus

782
James George Nahay, Hilliard
John David Morris, Newton Falls
Janice Marie Mcllyar, Newark
Joanna Kay McClellan, Maple Heights
Alysia Lavdas, Strongsville
Sandra Christine Wade Moon, Newark
Catherine Theodore Henry McCord, Beavercreek
Lori Dreher Moxley, Columbus
Jeffrey Todd Jennifer Lynn Negutt, Columbus
Donald William Moreland, Gahanna
Linda Jane McGuire, Coshocton
Jo-Lynne Lower, Delaware
Deborah Renee Lieb, Sandusky
Lysa Reed Lawing, Columbus
Marci Ann Prima Patel, Columbus
Rebecca Lee Nowthstine, Meadow
Stacy Steven Susan Gary Lee George David Thomas J. Ramey, Reynoldsburg
Norman McKissick, Columbus
Elizabeth Moriarty, Bexley
James George Nahay, Hilliard
Jenifer Lynn, Nigeria
Rebecca Lee Nohsttine, Meadow
Bridge, WV
Gerard Adolph Opava, North Ridgeville
Prima Patel, Cuyahoga
Marc Ann Perry, Waverly
Robert G. William Peterson, MT Vernon
Thuy Pham, Kettering
Dennea Renee Platzke, Monclova
Sim Por Poh, Singapore
Susan Elizabeth Pomony, Columbus
George David Popyak, Lima
Jeffrey Todd Porter, Wintersville
Gary Lee Prachar, Grove City
Norma J. Price, Columbus
Thomas J. Ramey, Reynoldsburg
Michael Paul Recker, Findlay
Tamala S. Reilly, Columbus
Paul James Reibolt, Akron
Steven Todd Rice, Worthington
Stacy Ann Rich, Graveline
Michael David Richard, Columbus
Christopher Keith Riedel, Chippewa Lake
Benjamin W. Ring, Trimway
Marianne Patricia Ring, Massepequa
Park, NY
Timothy Alan Ringo, Columbus
Sheryl Anne Rose, Pickerington
Susan Marie Ross, Mentor
Richard Thomas Ruble, Shadyside
Rex Edward Rudy, Jr., Worthington
Michael John Rywalski, Toledo
Scott W. Sanford, Medina
Bruce Robert Sanneman, Cincinnati
Miguel Angel Santin, San Juan, PR
David Gregory Scheer, Westerville
Kenneth N. Schomaker, Cincinnati
Brenda Sue Schroeder, Columbus Grove
David S. Scicilone, Mentor
John Adam Scioc, Columbus
Richard Chester Seaman, West Union
David Milton Sebenolor, Columbus
Scott Lawrence Shafer, Brunswick
James William Sherry, Wallkill, NY
Kevin Alan Shoultz, Chillicothe
Deborah Gaye Sigworth, Jamsville, MD
Thomas Valerio Sinacola, Columbus
Julie Ann Sivil, Orient
John Charles Sommer, Pittsburgh, PA
Troy Edward Spews, Lima
Mark Alan Stair, Sandusky
Brian T. Staples, Columbus
William David Stauffer, Elida
Theresa Ann Stein, Luckey
Russell D. Stephan, Powell
Sandra Jane Stewart, Sidney
Thomas Ryan Stewart, Westerville
Michael Wayne Stoff, Marietta
Michele Hawkins Stroup, Dublin
Robert Alan Sweeney, Columbus
Robert J. Sweeney, Toledo
Richard William Tarantelli, Worthington
Timothy D. Taylor, Westerville
Brian Thomas Teets, Urbana
Janet L. Tobin, Sparta
Kevin Leigh Tom, Columbus
Annette Marie Tomei, Buffalo, NY
John David Tomlinson, Columbus
Michael L. Tosh, Parma Heights
Christopher Randolph Townsend, Wilmington
Linh Khanh Tran, Oxford
John Thomas Trot, Zanesville
Theodore John Turner III, Worthington
Michael Lee Vagnier, Powell
Saied Vahabzadeh, Columbus
Mark Alan Van Buren, Kiskersville
Tracy Lynn Vasko, Akron
Kathy J. Vender, South Euclid
Theresa Ann Vernon, Cleveland
Vikki Lynn Vincent, Bexley
Deborah Lynn Vitt, Fostoria
Ronald W. Wade, Worthington
Eugene P. Wagner, Englewood
Shelley Lynn Wallace, Wheelersburg
Steven Douglas Watson, MT Vernon
William Howard Wehling, South Euclid
Paul Gregory Werring, Jr., Williamsburg
Raymond Casper Whicker III, Willoughby
Anthony Christopher White, Pataskala
Elizabeth V. Wicks, Hilliard
Timothy G. Wilkman, Springfield
Lisa Renee Wilson, Hopewell
Edgar Dallas Woffram, Columbus
Robert John Woodruff, Berkeley Heights, NJ
Yong Soo YI, Columbus
Robert Allan Young, Chardon
Timothy Wayne Young, Wooster
Leslie Keyes Youngflesh, Lancaster
Beverly Ann Zalar, Euclid

College of Education
Dean: Donald P. Anderson

Bachelor of Science in Education
Monty Lee Backus, Springfield
Jay Noel Baird, Pataskala
Susan Ilene Berman, Pepper Pike
Timothy Johnathon Best, Toledo
Jacque Renee Blake, Eldla
Sheryl Ann Bordas, Greenwich
Barbara Jo Bowers, Lancaster
Elizabeth Anne Bowling, Canton
Lozen Michelle Boyer, Lyndhurst
GlORIA Jean Bratton, Pickerington
Jeffrey Todd Brian, Lancaster
Ronald William Burns, Cincinnati
Beth Ann Butter, Columbus
William J. Carr, Dublin
Susan Marie Carter, Columbus
Kimberly Kay Clark, Galion
Rena Cathleen Clauens, Wauseon
Penny Sue Creamer, London
Tracy Lynn Cummins, North Royalton
Lisa Christine Dadik, Columbus
Steve R. Davis, Lexington
Kriste Geralyn DeAnna, North Royalton
Kendra Wolf Dreitzler, Lima
Michael David Dunbar, Dublin
John Charles Eaton, Columbus
Mark Allen Edwards, Grove City
Dubreavka Elzer, Mentor
John Paul Fantin III, Hilliard
Kathleen Jean Farmer, Salem
Lisa Michelle Friedman, Mayfield Heights
Mark Allan Furda, Wintersville
Charlotte Janice Gay, Lima
Susan Kathleen Geibhardt, Bucyrus
Julane Rene Gossman, Delphos
Jeffrey Stuart Graye, Columbus
Lori Denise Green, Marysville
Susan Jill Greenawalt, Copley
Kristi Leigh Greene, Cincinnati
Mary Jo Grime, Archbold
Inge Margaret Hesch, Pickerington
Sherri Lynn Higgins, Worthington
Franoise Jean Hirata, Columbus
Stacy Ann Horsch, North Lewisburg
Brian John Hunt, Lima
Jeffrey Brian Hurst, Sandpoint, ID
Tammy Rene Jackson, Quincy
Caroline S. Johnson, Lexington
Jame Alene Ruley Jones, Columbus
Michelle Lynn Juchem, Westlake
Timothy Patrick Kannally, Delaware
College of Engineering

Dean: Donald D. Glower

Bachelor of Science in Aeronautical and Astronautical Engineering

Douglas Sean Backus, Cincinnati
John Glenn Henderson, Chagrin Falls
Edward Joseph Horvath, Bridgeport, CT
Dobrela istocki, Columbus
Thomas Nalani Jacob, Forest Park
Robert Wayne Metz, Clarence, NY
Tong John Oon, Malaysia
Anthony Scheidt, Cincinnati
Sevenin Douglohh Stephens, North Canton
Barbara Marie Woodworth, Colorado Springs, CO

Bachelor of Science in Agricultural Engineering

Beth Ann Pratt, Ashville

Bachelor of Science in Aviation

Roger Lee Curry, Dublin
Gregory Gene Fender, Columbus
Michael John Logar, Grafton
Gerald Francis Lorig, Jr., Springfield
Gregory Alan McCormick, Gahanna

Bachelor of Science in Ceramic Engineering

Stephen Wallace Barns, Alexandria, VA
Brian Vern Cockemn, New Carlisle
Douglas Richard Dalimar, Cincinnati
Luke Joseph Hannibal, Avon Lake
Mark Edward Morelock, Sidney
Daniel Eric Rafferty, Latrobe, PA
David John Slagel, Trotinton

Bachelor of Science in Chemical Engineering

Richard Duane Blasick, North Canton
Thomas Anthony Rich, Cincinnati

Bachelor of Science in Civil Engineering

Elizabeth Ann Balik, Cincinnati
James Andrew Barna, Columbus
Daniel Elam Beasley, Peebles
David Jess Cliff, Akron
Amy Louise Dricell, Louisville, KY
Aiman S. El-Tohmany, Kennesburg, NJ
Steven Lawrence Gayer, Fremont
Robert Owen Hahn, Perry
Mark Alan Hoar, Tiffin
Gregory Paul Huffman, Marietta

Bachelor of Science in Computer and Information Science

Hitmi Nizar Al-Kambawi, Columbus
Paul Francis Brant, Jr., Macedoia
Michael Scott Brockway, Buckeye Lake
Thomas Lee Butler, Blanchester
John Donald Endres, Akron
James Edwin Fowler, Jr., Huntsville, AL
Matthew Hayden Harper, Akron
M. Mostafa Haykal, Damascus, Syria
Andrew Ralph Hofstetter, Fort Jennings
Kelly Dianne Kent, Mentor
Jack A. Konstetter, Lattasburg
David Andrew Kieffer, Columbus
Young Jun Kim, Senal, South Korea
Ronald D. Lee, Chesterland
Deepak Malik, Columbus
Jamal Naiyer, Columbus
Aaron Yau-Wai Nip, San Francisco, CA
David Michael Powell, Solon
Dean E. Ryan, Columbus
Joseph William Sawyer, Cincinnati
Wayne Joseph Schroeder, Columbus Grove
Kathryn Mae Sloan, Springboro
Siew Eim Tan, Singapore
Lisa Marie Thiel, Upper Sandusky
Stephen Michael Wall, Columbus
Sharon Lee Year, Columbus

Bachelor of Science in Electrical Engineering

Laura Sue Bennett, Oregon
John Bryan Boatright, Hamilton
Richard Louis Bodo, Jr., Youngstown
John Frederick Brendle, Jr., Columbus
Neil Robert Bruss, Toledo
Dale Eugene Cory, Columbus
William Herbert Darden, Springfield
James Matthew Gassman, Norwalk
Thomas Gerard Green, Old Tappan, NJ
Mark Edward Hermann, Warren
Rodney Paul Kahle, Kalida
Depat Setyawan Liem, Surakarta, Indonesia
Kevin Lou, Columbus
Dean Alan Miller, St. Henry
David Scott Mitchell, Columbus
Bachelor of Science in Engineering Physics

Douglas Richard Dodd, Columbus
John William Lindsay, Westerville
Clyde Charles Osterholtz, Steubenville
Michael James Packard, Geneva
Ronald William Yuhas, Kingston

Bachelor of Science in Industrial and Systems Engineering

Yvette Christina Cobler, Delaware
Mark Charles Davenport, Columbus
James Edward Dennis, Endicott, NY
David Robert Elliott, Shaker Heights
Timothy Edward Faber, Upper Arlington
Kevin Bentley Harris, Mansfield
Robertus Harseno, Jakarta, Indonesia
Tod Morris Hofer, Wickliffe
Tony Yul Lung Huang, Hong Kong
Dean Patrick Lohiser, Mentor
Anne Marie Mittelstadt, Little Falls, MN
Loi Phuc Nguyen, Painesville
Kevin Earl Nourse, Springfield
Sunil R. Patel, Morris Plains, NJ
Pamela Jean Pascick, Hudson
Mark Alan Pasculli, Seven Hills
Harold Edward Pruet, Columbus
Troy David Rich, Reynoldsburg
Ramon David Riley, Akron
Steven Wayne Rucker, Delaware
Timothy James Sand, Bucyrus
Patrick Christopher Schnaible, Warren
Stephen Duane Shaver, Pittsburgh, PA
Sandra Rukmini Soetandi, Bandung, Indonesia
Hong Kam Sow, Singapore
Tina Lynn Tidwell, Findlay
David William Walters, Columbus
Joseph William Worthington, Worthington

Bachelor of Science in Mechanical Engineering

William Douglas Baker, Jr., Mentor
Markus Max Birnrich, Galloway
Pamela Gravenkemper Brown, Dayton
David Lloyd Cuthbert, Columbus
Michael John Evans, Plain City
Michael Peter Gibson, North Olmsted
Ronald Patrick Griffith, Columbus

Bachelor of Science in Metallurgical Engineering

Kimberly Anne Anderson, Rocky River
Wesley William Barker, Hicksville
Kathy Elaine Vannatta, Columbus

Bachelor of Science in Surveying

Kenneth Lee Koppes, Medina
David Allen Shiffer, Urbana

Bachelor of Science in Welding Engineering

Patrick Michael Hoyt, Elyria

School of Architecture

Charles Michael Busch, Findlay
Steven Marshall Dunagan, West Carrollton
James William Kaufman, Cincinnati
Shawn Timothy McAllister, Columbus
Scott Allen McCoppin, New Vienna

Bachelor of Science in Landscape Architecture

Michael Lee Horwath, Kettering
Todd Karl Litten, Miami, FL

College of Human Ecology

Dean: Lena Bailey

Bachelor of Science in Human Ecology

Jill Marie Biehl, Sandusky
Samuel Arthur Braun, Cleveland
Lisabeth Anne Breymaier, Bay Village
Gretchen Marie Denk, Mentor
Jina Adene Ehrtridge, Columbus

Donna Marie Gibson, Enon
Tomasean Marilyn Gloriowa, Mansfield
Karen Jean Goforth, Westerville
Michelle Renee Guard, Reynoldsburg
Trudi Ann Hebert, Gahanna
Elizabeth Marie Kacher, Lorain
Pui Ling Leung, Whittier
Karen Lynn Marquardt, Toledo
Megan Lee Mars, Lakewood
Rebecca Elaine Martin, Columbus
Julie Anne Natalizio, Shreve
Susan Elizabeth Palur, Columbus
Leslie Anne Pearlman, Highland Heights
Elizabeth Ann Pendleton, Waverly
Kristin Sue Pociusnak, Caxon
Wendy Lee Pratt, Loudonville
Jill Kristie Robinson, Cincinnati
Lisa Ann Schimmoller, Ottawa
Christine Marie Shindler, Sylvania
Melanie Beth Shine, Beachwood
Amy Bell Spain, Marysville
Tracy Lee Slamaugh, Groveport
Rebecca Ann Stewart, Mt. Vernon
Donna Josephine Verone, Watchung, NJ
Shelbie Myra Wasserman, Columbus
Marie Renee Yoho, Worthington
Rosemarie Elaine Zimmer, Mansfield

Bachelor of Science in Hospitality Management

Kellie Lee Beckett, Columbus
Holly Ann Cleckner, Tipp City
Loreen Marie Cryan, Nassau, NY
Scott Alan Dauterman, Worthington
Stacey Ann Guzy, North Ridgeville
Amy Richelle Koopman, Arlington Heights, IL
Lorie Ann Levering, Bucyrus
James Douglas Meyer, Dublin
James Anthony Murzynsky, Mentor
Lori Susan Petry, Findlay
Christine Lynn Schodorf, Columbus
Deborah Rose Silverberg, Boynton Beach, FL
Nanci Meryl Tarutz, Livingston, NJ
Kristin Ann Vause, Columbus
Lee Anne Zaroski, Akron

College of Medicine

Dean: Manuel Tzagournis, M.D.

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Jennifer Marie Anstatt, Vincent
Susan Kay Barnhart, Canal Winchester
Kathleen Ellen Bowens, Eudic
Kathryn Alice Browne, Ashville
Anson Bess Castle, Lima
Cynthia Marie Dippolito, Warren
Jane Erika Fletcher, Cleveland
Cynthia Gail Fullerson, Troy
Valerie Jean Galberry, Bellevue
Cynthia Lane Grubb, Chesterland
Patricia Louise Groom, Columbus
Dawn Christine Gueli, Columbus
Cynthia Lynn Hackworth, Granville
Melinda Jane Hostetler, Marion
Karen Anne Johnson, Coraopolis, PA
Lesaann Gulick Jones, Portsmouth
Donald Gene Kennett, Arcadia, IN
Andrew Krzyzcin, Harrod
Nicole Stacy Kwiat, Toledo
Cindy Ann Lamb, Lancaster
Donna Michelle Leo, Cincinnati
Ellen Sander Longjohn, Pittsburgh, PA
Sandhya Mal, Columbus
Carolyn Jean Malito, Warren
Breanda Louise McClain, Bellevue
Katheryn Anne McClatchey, Gillette, NJ
Lisa Jane McClure, Toronto, Ontario, Canada
Kimberly Joyce Meier, Cincinnati
John Thomas Miller, Sidney
Kelly Jean Morley, Warren
Ellen Marie O’Callahan, Parma
Jaime Jo Orne, Beavercreek
Heidi Joanne Pitts, Newark
Robin Tara Quinn, Hamilton
Denise Kathleen Radomile, Willoughby
Robin Lynn Raidel, Champion
Kathleen Riley, Columbus
Marci Lynn Rogosin, Columbus
Holly Reeve Rose, Rochester, NY
Jane Elizabeth Rosen, Huntington Station, NY
Maria Schiavello Ruckman, West Chester, PA
Susan Lynne Sansone, Centerville
Melissa Sue Scarce, New Paris
Colleen Ray Schlegel, Gahanna
Gloria A. Segal, Hamilton
Debra Dawn Simpson, North Lewisburg
Patrick James Smith, Medina
Michelle Renee Stanar, East Liverpool
Michelle Gayle Takiff, Centerville
Susan Marie Tobin, Willoughby Hills
Diane VanderDoes, Columbus
Linda Burik Vorsek, Gahanna
Cheryl Lynn Wondrak, Solon
Susan Lynn Yast, Akron

Certificate of Post Baccalaureate Circulation Technologist
Alois Walter Lesch, Orlando, FL
B.S. (University of South Florida)
Curtis Alan Seiler, Raleigh, ND
B.S. (Southwest Texas State College)

James Steele Shouhan, Columbus
B.S., B.S.M.H.H. Prof., M.S.

College of Nursing
Dean: Carole A. Anderson

Bachelor of Science in Nursing
Patricia Kay Correll, Flemington, NJ
Kathryn Frances Diehl, Worthington
Maryln Jean Glenn, Columbus
Frank James Meyers, Youngstown
Toni Yvette Reddick, Cleveland
MaryAnn Webber, Miami, FL

College of Pharmacy
Dean: John M. Cassidy

Bachelor of Science in Pharmacy
Mui Wing Chu, Hong Kong
Dwight Allen Dobins, Springfield
Amy Jeanneine Erdos, Cadj
Donald Michael Ferren, Canfield
Douglas Burton Ferriman, Wellington
Lori Lynne Fracker, New Concord
Chris Albert Gasser, Rittman
Brian John Goske, Tiffin
Cynthia Marie Goulsh, Youngstown
Thomas W. James, St. Clairsville
Cheryl Ann Micak, Columbus
Freddie Vernell Moyer, Jr., Columbus
Janet Margaret Nagy, Richmond Heights
Janet Dahman Roadcap, Jacksonsville, IL
Denise Elaine Rush, Newcomerstown
Catherine Lynn Sheets, Canton
David James Sidor, Parma
David Michael Stowe, Lorain
James Michael Taylor, Catlettsburg, KY
Shirley Ten, Cleveland
Thanh-Tan Thi Thai, Columbus
Hak Kim Michael Ting, Hong Kong
DeAnne Lesley Willick, Dublin
Todd Wallace Williams, Batavia

Graduates with Honors
Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class.
Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with curricular distinction and dedication to high educational goals.

Summa Cum Laude with Distinction in Sociology
Lara Lynn Roholt

Summa Cum Laude with Honors in the Liberal Arts
LaVonne Renée Dye
Daud Scott Preston
Jacinque Diane Ruff
Todd Albert Ulbrich

Summa Cum Laude
David Alan Abernathy
Melanie Ann Bowers
Pamela Gravenkemper Brown
Karen Burke
Christie A. Campbell
Douglas L. Cole
David Lloyd Cuthbert
Cynthia Beth Diaz
Jodie Yarhouse Duffy
James Edwin Fowler, Jr.
Thamie J. H. Freeze
James Matthew Gassman
Matthew Hayden Harper
Inge Margaret Hesch
Edward Joseph Horvat
David D. Katzman
Thea Marie Lash
Barbara Jean May
Lisa Lynn Mosa
Sim For Poh
Michael David Richard
Brenda Sue Schroeder
Robert Alan Snead
Christis George Tombaxos
Kathy J. Vender
Sharon Lee Yeary

Cum Laude with Honors in the Liberal Arts and with Distinction in French
Lisa Michelle Fletcher

Cum Laude with Honors in the Liberal Arts and with Distinction in History
William Charles Paris III

786
Cum Laude with Honors in the Liberal Arts and with Distinction in Sociology
Elizabeth Burns

Cum Laude with Distinction in Agricultural Education
Melissa Lynn Beaver

Cum Laude with Distinction in Food Science and Nutrition
Sherman Arthur Stevenson

Cum Laude with Distinction in Mechanical Engineering
William Morgan Halli

Cum Laude with Distinction in Poultry Science
Jeffrey Ward Stoutenburg

Cum Laude with Honors in the Liberal Arts
Ashley Albert Ayers
Amy Elizabeth Busick
Kathy Ann Hart
Mary Sullivan

Cum Laude with University Honors
Stephen Max Whitt

With Honors in the Liberal Arts and with Distinction in Political Science
Thomas Allan Jones

With Distinction in Modern Greek
Evangelos Ioannis Gegas

With Honors in the Liberal Arts
Barbara Bartok
Kristen Kay Brewer

With University Honors
Stacy Lynn Donaldson
Kendra Ann Hoot
Tanja Maria Sattler
Mayank Vipin Shah

Cum Laude
Hilmi Nizar Al-Kamhawi
Thomas W. Atchison
Susan Kay Barnhart
Kathleen Barone
Laura Sue Bennett
Mark Paul Borling
Timothy Harrison Bowers
Barbara Kay Connors
Suzanne Csatery
Marsha Jo Dresbach
Jenny Lynn Dunham
Gary Alan Fleschman
Charlotte Janine Gay
Marilyn Jean Glenn
Cynthia Lane Gripp
Kathleen Ann Haines
Michele Ann Hengle
Siri Lyen Higgins
Lisa Irene Holomitch
V. Colleen Kellermeyer
Vandana R. Kundur
Catherine Pallay Lamb
Monica Leah Litsky
Julie Evelyn Longacre
Kevin Luz
Debra Louise McKinley
Viksa Mendiratta
Christine Wade Moon
Robert Bruce Murdoch
Jeffrey Alan Murray
Steven John Myers
Thomas Ore
Kenneth Jerold Perelman
Penny Marie Pries
Kimberly Dawn Pyle
Stephen Richard Reuning
Benjamin W. Ring
Susan Lynne Sansone
Joseph William Sawyer
Melissa Sue Scarce
Robert Joseph Schultz
Linda Sue Schwyn
Richard F. Taylor
Carol Sue Tuttle
Darci Ann Uetrecht
Mary Ann Webber
Paul Gregory Werring, Jr.
Michael Alien White
THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FIFTY-NINTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, March 2, 1990

The Board of Trustees met at its regular monthly meeting on Friday, March 2, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**  **  **

Minutes of the last meeting were approved.

**  **  **
March 2, 1990 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on March 2, 1990, at 11:20 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, Milton A. Wolf, Leslie H. Wexner, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

---0---

REPORT ON THE OFFICE OF MINORITY AFFAIRS

Mr. Berry:

I would like to call on Dr. Joseph J. Russell, Vice Provost for Minority Affairs, to give us a report.

Dr. Joseph J. Russell:

Thank you, very much. I have asked to have a package distributed to you, principally for homework and an exam in about two weeks, if that is permissible. Mr. Chairman, members of the Board of Trustees, President Jennings, administrators of The Ohio State University, and friends, I appreciate this first opportunity to share a bit of information after about six weeks of concentrated work and four weeks before that of general orientation to the maize and pattern of negotiating the traffic at The Ohio State University. I want you to know that even though James "Buster" Douglas has distinguished himself in this community and it coincides somewhat with my coming, I had nothing to do with that. And, likewise, with the accelerated tempo of Randy Ayers's basketball team, I had nothing to do with that. Though I am happy that these things happened at about the time of my arrival.

I do come after nineteen years of work in this field at Indiana University and a lifetime of professional commitment to this area. I come because we have always looked to the east, from Indiana, for new and innovative activities. At the same time, we have tried to guard whatever activities we had in the west, at Indiana, very carefully. And so an invitation to join the faculty and administration family at The Ohio State University was one that I thought was well-deserving of serious contemplation. Eventually with the twisting arms of Ed Jennings and Fred Hutchinson, the decision to come was not difficult. I want you to know that the Office of the Vice Provost for Minority Affairs here, in my judgement, has a very complicated and comprehensive set of activities, which were not well described in the announcement for the position. But I hope that as we continue to work that I will be able to give the Board of Trustees a full account of all of those responsibilities as I encounter them throughout the years of service.

I have prepared a formal report, included in your packets, that you may read at your leisure. But I also use it as a guide to make certain that I cover all of the things that I believe to be important for you to know at this point in time. By way of introduction, the Office of Minority Affairs was established twenty years ago as a major indication of The Ohio State University's general commitment to academic excellence and diversity. This commitment was revisited and strengthened in 1987 by the Action Plan: Recruitment and Retention of Black (Minority) Students at The Ohio State University. This plan was designed to address the challenges inherent in minority enhancement initiatives with special emphasis on recruitment, retention, and release. Release here means graduation. It is important to note that the "Action Plan" grew out of a number of University studies and had the strong endorsement of the administration, faculty, staff, students, and, of course, the Board of Trustees.
REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Russell: (contd)

We have come to believe, in the short time that I have been here, that there are some goals that this Office must aspire to and must be held accountable for. These goals are:

1. To increase significantly the level of educational attainment among minority and/or underrepresented youth in Ohio, so that more minority youth aspire to a four-year college education; are eligible to be admitted to a four-year college program; and are aware of the financial and other support services that can help them achieve their educational goals.

2. To increase substantially the accessibility of The Ohio State University to minority undergraduates through creative and effective recruitment and retention strategies.

3. To facilitate the creation of a hospitable university environment, enhanced by its diversity, in which each member of the community experiences support to engage in the fullest development of his or her talents, ideas, and aspirations.

4. To instill in students a high-level of self-awareness, social consciousness, self-sufficiency, and a commitment to support generations of students who will follow their leads.

5. To promote the awareness of the cultural achievements of minorities through exhibitions, lectures, performances, and research.

6. To advance the role of the Office of Minority Affairs in the three-part mission of the University -- research, teaching, and service.

7. To facilitate self-help initiatives by building various partnerships -- students, faculty, staff, alumni, corporate, civic, institutional, and friends who are willing to support the goals of the Office of Minority Affairs.

There are also a number of minority issues that are important in the 1990's, that I wish to share with you in a general sense and to answer any questions that you might have about these as you contemplate them in your own minds. The first of these is the question of educational equity. I believe that educational equity is an institutional and/or a national issue and not a special group's issue. There is time when we want to believe that special groups and those that are effected by certain social conditions ought to respond to those conditions by suggesting what the answers are. I submit to you that we, and those special groups, certainly ought to participate in the decision making and in the development of those answers. But the real response to them must come from a concerted effort from all of us and, therefore, raise the social issues to the level of national and certainly to institutional concern.

Secondly, the whole question of access to higher education. Is there a will or commitment to the maximum intellectual development of minority students? I believe that there is a will here at The Ohio State University. But I want to suggest to you that we need to look in at least two corners in demonstrating that will. First of all, the recruitment of students so that they are admitted to the University. But we
March 2, 1990 meeting, Board of Trustees

REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Russell: (contd)

cannot stop there. Students tell me that they sometimes experience difficulties in moving from that regular admission to that special interest and discipline in the University. That is if they wish to move to the College of Business, to Engineering, to Education, or to other areas of the University, that is another hurdle. We must develop the kinds of retention and academic support strategies that will help them make that transition as smoothly as possible.

Thirdly, the whole question of streamlining -- this is a matter of quality vs. quantity. And I know that we will debate this issue all of the time that I am here, and all of the time that I am gone, and particularly in the time that I will be resting in that small piece of Earth that I will occupy. The issue seems to be that society must choose between educating the few well or to educate the many less well. I believe that we can do both. It obviously will take planning, it will take will and strong leadership in order to address both of these concerns and to arrive at a response that provides opportunity for persons who have a range of talent and interests. With your help and with the concerns and expressions of our students, we can develop the program here at The Ohio State University to respond to both groups.

Diversity -- What is its contemporary role? It has historically been one of the more outstanding characteristics of post-secondary education in this country. It has a prominent role in curricula expansion, degree specialization, population growth, and student choices. We simply ask that we expand this whole concept of diversity to include a range of ethnic interests, racial interests, and religious interests. This is the direction in which we wish to go with educational diversity.

Graduation -- While researchers report that more than 50 percent of black students are enrolled in historically white institutions, historically, black institutions are graduating more than 75 percent of the graduates annually. It seems to me that we must reverse this trend.

Role models among the faculty and staff -- it is not enough, in my judgement, simply to recruit one minority in one area. We must work toward a critical mass, we must work toward bringing to this University the best talent we can find to fulfill all of the positions we have and especially to serve as role models and mentors for our minority students.

Financing the educational experience -- The probability of attending college is still positively correlated with family income. We know that minorities in this country, and in the State of Ohio, experience greater difficulty in trying to come up with the numbers of dollars that are necessary to keep pace with the rising costs of education. We only ask that you work with us in trying to find the sponsors and windows of opportunities to finance the educational opportunities for those who deserve our attention.

I especially want to comment on culture centers and the re-segregation matter. Frequently I am asked the question of whether culture centers, particularly black culture centers and minority culture centers, in institutions of higher learning simply serve to re-segregate or to separate further our young people. If designed properly, culture centers -- and we are certainly working on the design here at Ohio State -- serve to address the academic limitations and transition to mainstream college activities for students who are least represented by the general leadership. This
REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Russell: (contd)

means that we must place in these centers academic support activities such as tutorial programs and enrichment activities, so that we can bring to the campus role models that the campus probably cannot afford. We believe that we can share these talents with the students by bringing significant persons to the campus on a short-time basis to give a talk, to spend a week, a semester or quarter, or even an academic year. We must address these interests, also.

Historical undergraduate enrollment patterns at The Ohio State University for minority students bare some review. I come today to share with you what I have learned from the Office of the Registrar on student enrollment data. You have in your packets an Autumn Quarter 1976-1989 Minority Student Undergraduate Enrollment list. If we look at that document, we see that in 1979 we had perhaps the largest number of black enrollees in undergraduate education. That number was 2,246 students, representing 5 1/2 percent of the undergraduate population. By 1989, that number dwindled to 1,935 students, representing 4.8 percent of the undergraduate students. We note, also, that in the other ethnic categories: Asian, Hispanic, and American Natives, we have seen some growth -- perhaps not enough in these areas. For example, in 1979 Asians were 353 in number, 0.86 percent of the population; by 1989, they were 1,060, representing 2.64 percent of the population. Hispanics grew from 195 students in 1979, to 464 students in 1989. So we begin to understand the nature of our assignment and what it is that we must be about.

Likewise, I share with you Minority Student Enrollment data that shows total minority student enrollment. These are students at all levels -- undergraduate, graduate, and professional schools. In 1976, when we had the largest number of minorities on campus -- there were 3,039 black students. By 1989, that number of black students had gone down to 2,729 students. Again, we have specific data, which you may examine at your leisure, on Asian and Pacific Islanders, Hispanic, and American Natives.

In the short time that I have been here, I have been meeting with various administrators, department heads, and student groups on campus. We have developed what we call the pipeline. The pipeline is simply a strategy or a way of referring to the triple mission of the Office. That is the recruitment mission, the retention mission, and the release or graduation mission. Remember that my interest is, as I am sure yours is, that students graduate not as special students, but as degree holders as competitive as any other graduates we have known at The Ohio State University.

In the recruitment area we are already doing some things: visiting high schools, sending invitations to a number of churches to include us in their church programs, and attending college fairs. We are beginning to understand where our alumni are and are inviting them to participate with us as we recruit in the various cities. We are asking them to kind of "host" our activities in those cities, and to share their experiences at The Ohio State University with those students we are attempting to recruit. We try to select people who have high profiles in their own communities and who would serve as strong role models for the young people we are inviting to the University.
March 2, 1990 meeting, Board of Trustees

REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Russell: (contd)

Clearly, we cannot ever do enough on the retention side with respect to counseling. But we are already engaged in some discussions with retired faculty asking them to use their experiences and skills in offering advice and counseling to minority students.

We have already come through a job fair with the numbers of corporate groups participating rising from about 65 in past times, to 81 this year. That is an area of special interest to me. I believe that the corporate community can help us by joining us as partners, providing internships for our students in the summer, and certainly by looking at them very strongly for full-time employment in the future.

We have come up with what I call "short range plans" for the office and I would like to share them with you. To achieve our goals, we propose the following:

1. Reorganize the staff to better address our goals. We are already looking at the reorganization process and within the next few weeks will make a proposal to the Provost in order to reorganize our Office to meet better the mission of the offices I have pointed out to you.

2. Significantly increase the minority presence in the University -- students, staff, and faculty. We will do that by the recruitment and retention methods that I have already outlined to you, as well as adding other opportunities as time and opportunity permit.

3. Provide leadership for the development and reorganization of academic support programs to address the changing academic development needs of our students. We know that we need stronger, well-organized tutorials; that our students need significant exposure to computer literacy training; and the whole adviser-mentor bonding opportunities that I have mentioned by the use of retired faculty.

4. Initiate a nurturing university environment designed to encourage and expand a variety of Office of Minority Affairs development partnerships from students on campus to our alumni in the fields.

5. Expand our earlier discussions with a group of retired faculty persons with a view toward employing their experiences and services as adviser-tutors in various areas of our academic support activities. We plan to provide them with the kind of orientation and training that is necessary to do an effective job.

6. Participate in the University's leadership to take advantage of "unique windows of opportunities" in advancing the "Action Plan." It seems to me that this is a very important function. From time to time, our Office receives and are apprised of these windows of opportunity of either persons interested in faculty positions or staff positions and/or as students who have excelled in many areas and who have interests in areas where we have great distinction.
March 2, 1990 meeting, Board of Trustees

REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Russell: (contd)

7. Provide shared development and implementation leadership for the monitoring, accountability, and evaluation processes inherent in an active minority enhancement program. We believe it is important for us to know the public school areas that provide good opportunities for us to recruit. We also believe it is important for many of those schools to have our help in training and understanding the matriculation of programs that are necessary for students be successful at The Ohio State University.

8. Assist the University in establishing an Office of Minority Affairs annual rate budget -- and we need your help with this one -- that is in closer conformity with the mission, activities, and responsibilities of the unit.

Finally, we ask the Board of Trustees to permit us to offer an agenda to you. The Office of Minority Affairs Agenda for the Board of Trustees is as follows:

1. Develop and widely disseminate a strong reaffirmation statement of your commitment to the full implementation of the "Action Plan" as an approved method of enhancing educational diversity and academic excellence.

2. Develop and widely disseminate a strong statement on racial tolerance and sanctions for those who compromise a hospitable campus climate by engaging in acts of racial/sex, gender and religious harassment.

3. Encourage and reward operating policy initiatives that facilitate the implementation of the "Action Plan" and maximize the opportunity for minorities to share meaningfully in decisions that impact their lives.

4. Promote the exemption of minority enhancement programs from budget reductions with a view toward providing program continuity, a reasonable development opportunity phase, and minorities at all levels with the ultimate assurance of the University's continuing commitment to their educational growth and development.

In conclusion, this report, we believe, provides a beginning perspective on the breadth of the mission and support activities in progress under the leadership of the Office of Minority Affairs. It further demonstrates our commitment to contribute meaningfully to the University's teaching, research, and service missions.

We have learned that it is not the crisis per se, but the way leaders and significant others respond to crises that determines survival and progress. The current concern for minority student matriculation in higher education generally, and at The Ohio State University in particular, must be countered by increased efforts to rekindle the thirst for knowledge. The Office of Minority Affairs can continue to help considerably with this matter if our academic support activities are adequately funded so that we can provide competitive, authentic academic encounters for our students. That means having meaningful graduate assistantships, computer resources, and challenging extra-curricular activities that teach the joys of hard-won success and the satisfaction of vigorous effort.
March 2, 1990 meeting, Board of Trustees

REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Russell: (contd)

We thank you for this beginning opportunity of sharing and invite you to continue your support in meeting the challenges inherent in educational diversity and academic excellence. The Ohio State University, already distinguished in many areas, must not neglect the opportunity to develop distinction in minority enhancement programming. Thank you.

Mr. Berry:

Thank you, Dr. Russell. Does any one have questions?

Mr. Wexner:

Dr. Russell, I appreciate your report and am encouraged by your thoughtfulness. I suggest to the Chairman that we invite you back in a year to see the progress that you have made, so we do our homework and we are sure that you are doing yours. I am just curious, and I have to admit that I am ignorant, about the total size of your staff and your total budget. You are asking for more support --

Dr. Russell:

I am also curious about that, too, because I don't know what the total budget is. The staff is about thirty, and we expand that by about ten with graduate work-study assistants. The reason that I say that about the budget is that a number of scholarships are funded through the Scholarships and Financial Aid Office. I certainly could provide you with that information at a later date, but quite frankly I really don't know what it is at the moment.

Mr. Shumate:

Dr. Russell for purposes of the definition of minority within the context of your office, does that include the four groups listed on the chart -- Black, Asian, Hispanic, and American Native?

Dr. Russell:

Yes.

Mr. Shumate:

Are there any other categories?

Dr. Russell:

Not that I am aware of.

Mr. Scott:

Alex, as you may recall, for consistency in reporting at the federal level, those are the major categories that most institutions in higher education have to report. And that is what we have done here. Sue Blanshan isn't that correct?
March 2, 1990 meeting, Board of Trustees

REPORT ON THE OFFICE OF MINORITY AFFAIRS (contd)

Dr. Blanshan:

That is correct.

Mr. Berry:

Are there any other questions? Again, we thank you, Dr. Russell.

Dr. Russell:

Thank you, very much.

(See Appendix LIII for charts, page 847.)

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board's Executive Committee met on Thursday, February 22. We heard reports from the Medical Director, Dr. Hagop Mekhjian, and Chief of Staff, Dr. William Smead. Both of these medical staff leaders praised the efforts of Nursing Administrator Judy Gilliam and the Hospitals administration for their initiatives in recruitment and training programs to offset the severe shortage of nurses. Mr. Fraley reported that University Hospitals' medical staff has pledged $15,000 to $17,000 in seed money to establish a program to provide nursing scholarships in return for service to the Hospitals.

In January the Hospitals met budget projections, although year-to-date we are approximately $1.5 million short of budget due to the unprecedented low levels of activity in November. Although the number of January admissions exceeded budget, the total number of patient days was one percent under budget because the average length of stay was less than anticipated. And I might say, that it appears to be just a continuing statistic that the length of stay is shortened, I think, because of the DRG requirements of the federal government. Though Dr. Smead suggested to us that it has just about reached the minimum that it possibly can to be consistent with good health care. Salaries and benefits continued to be over budget, primarily because of the continuing need to utilize contract nurses. Contract nurses basically--many of them travel around the country for the best climate. Needless to say, it is harder for us to get nurses in the winter than it is in the summer and the costs for those are really quite high. It only exacerbates the nursing shortage really that we have to utilize them. The March meeting of the Professional Affairs Committee will be devoted largely to an overview of the nursing situation.

We received an analysis of payor sources for inpatient care. During the past year, there has been a disturbing downward trend of approximately 4 percent in commercial payors and a corresponding increase in numbers of patients who are either uninsured or covered by various governmental programs. This is a particular concern because part of that was a significant increase in Medicaid funding; and Medicaid, indeed, only reimburses about 70 percent of the costs of medical care at the Hospitals and all of the rest of that we are forced to eat. In addition, Medicare is very slow in handling reimbursement to the Hospitals for the money they did give us.
March 2, 1990 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

University Hospitals provides a disproportionate share of services to the area’s indigent population. We feel that it is part of our mission, but by the same token we feel strongly that the public needs to be reminded that we do not receive any special appropriation from the State to offset those expenses. In many states -- I know in Iowa, in particular, similar facilities do get reimbursed from the State for those things.

Consistent with the Medical Center’s Strategic Plan and included in the Capital Plan previously approved by the Hospitals Board, we authorized the Hospitals administration to move forward with the identification and acquisition of a second MRI (magnetic resonance imaging) unit. It is not to be confused with the one that is on our agenda today, which is merely a research MRI. Inherent in that authorization is our approval to proceed with the required Certificate of Need documentation and to identify the most cost-effective method of funding. This acquisition will enhance our leadership position in both clinical and research applications. The second unit would have a significant positive dollar impact on the Hospitals. The initial investment in both facilities and equipment will be between $2.45 to $2.5 million. You need to know that we have been informed that the current MRI unit might be the most used MRI in the United States. That facility is used from early in the morning until 10:00 at night, and used on weekends as well. The usage is more than double any other MRI unit in the Franklin County area. One of the real problems with it, too, is it squeezes out research usage because of the significant amount of clinical usage that is necessary.

We also received brief reports on our Public Relations Media Program and on the Medical Center Development. That completes my report, Mr. Chairman.

--0--

INVESTMENTS COMMITTEE REPORT

Mrs. Bowser:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio presented by Mr. Nichols. The value of the endowment as of February 16, 1990, was reported at $300.5 million. The Committee also reviewed several improved formats and charts for the monthly endowment report and this new format will begin next month. We have asked Mr. Nichols to take a few minutes in the Fiscal Affairs Committee next month to present this new format. This is not a settled format, and you may have suggestions to add, too, but it is certainly much more informative.

Mr. Nichols compared Ohio State's performance with the results of the annual Endowment Performance Survey of Colleges and Universities which shows Ohio State as the sixth largest public and the thirty-eighth largest overall higher education endowment in the United States. Some of you may wish to avail yourself of that material if Mr. Nichols has some extra copies. Ohio State's Endowment Investments performance continues to rank in the 26th percentile among all colleges and universities.
March 2, 1990 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

Mrs. Bowser: (contd)

The Committee also heard a second quarter progress report on the University Campaign. Receipts for the first 6 months of this fiscal year totalled $21.6 million, bringing the Campaign total as of December 31, 1989, to $416.5 million, which is 119 percent of the Campaign goal. That concludes my report, Mr. Chairman.

Mr. Berry:

Thank you. Any questions?

Mr. Teaford:

I had one question. Mr. Nichols, I note that the Wells Fargo Standard and Poor's 500 fund that we have is down in return, whereas the Standard and Poor's index is up. Is that simply a reflection of the time period in which we've had the fund?

Mr. Nichols:

That is correct, Mr. Teaford.

Mr. Teaford:

So Standard and Poor's was down 2 percent in that grade, too.

Mr. Nichols:

That is correct. It started in early October.

Mrs. Bowser:

Do you have extra copies of how we rank? Because I think it is always interesting to see those statistics.

Mr. Wexner:

Don't you think it would be useful in looking at this -- and maybe you are doing it already -- to pull out Ohio State against all land-grant colleges; Ohio State against Big 10; Ohio State against the whole universe, and measure the size and the performance against what the Committee would think comparable. It is useful to look at the whole laundry list of endowments. I would find it more useful to look at OSU against all land-grants, against the Big 10, and against our universe -- endowments between $200 and $500 million. Because when you look at the whole universe, you're making all those calculations. It is not productive, in my judgement, to look at a list that begins with Ohio State and compares us against Harvard.

Mrs. Bowser:

Well, I think there are two reports in here, are there not, Mr. Nichols?
March 2, 1990 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

Mr. Nichols:

There are two reports. The second one is a performance report. We can segregate in one manner, Mr. Wexner, and that is by size. I believe the category that we would fall in would be $100 to $400 million. The difficulty in doing the other analysis is that all of those schools are listed by code and we don't know who the other schools are so we can't identify them.

Mr. Wexner:

Can't you ask them? Won't they tell? I mean, I'd suggest we tell if they tell. I am serious -- I am not trying to make a facetious remark. We report financially because we are a public company. I just got a letter from one of the retail companies saying why don't we all report the same way, the same day. The information is going to be analyzed anyway -- so who is fooling who? And I think we could take some initiative and if some of the sister schools in the Big 10 or the land-grant colleges don't want to share information with us, O.K. we won't share with them. But I think we can provide some useful leadership not only in the growth of our endowment, but in the management of it.

Mrs. Bowser:

Jim, you might tell him about the growth in the endowment from the time you came.

Mr. Nichols:

Eight years ago we were in the 48th position overall, we have now moved to the 38th and with regards to publics we have gone from 8th to 6th. So there has been a continual upward movement in terms of total assets. Our endowment has continued to grow.

Mr. Wexner:

I am aware of this. I think that dimensions the opportunity for the next period, because I think I know how well we have done and the efforts that were expended. In looking at the decades ahead, I think we can really push it. We can, ourselves, internally, provide some leadership for the other institutions. I could not imagine a comparable institution, a land-grant or Big 10 institution, that wouldn't want to know. If I were a trustee of Northwestern or Michigan or Indiana, I sure would want to know how I was doing. Maybe this is something that is handled president to president, maybe at your level, or maybe at the board of trustees' level. If I was chairman of the board at another institution of our size, and I got a letter from the chairman of our board saying, "we would like to share this information with you, why don't you gin this up in your staff," I would think that was a great idea.

Mr. Berry:

Well, we certainly can try.

Mr. Nichols:

In terms of performance comparison, we have not done land-grant, but there is no reason why we couldn't.
March 2, 1990 meeting, Board of Trustees

INVESTMENTS COMMITTEE REPORT (contd)

Mr. Wexner:

What I am saying is, I think, the more ways you slice it, the more challenged we are to the opportunity. I know that our progress has been great, I am congratulating you on that. I am just looking at the opportunity of more ways of comparison for challenge, not only to us but to the broader base alumni. I think all the alumni ought to know how well the University has done and how fast we have done it. Here is the basis of the next campaign.

Mrs. Bowser:

We will look into that and see if it is feasible. Good suggestion.

President Jennings:

It is feasible and I think that type of breakdown is appropriate. I would also caution us to watch our definitions and I am referring particularly to Texas. Because Texas endowments include, basically, tax money coming from minerals. That is one of the reasons Texas will show up as the largest public, but that is because of severance tax from minerals. So what, you say! That is right, I agree, but we should keep that in mind.

Mr. Wexner:

Maybe we can tax fish or something.

(See Appendix LIV for complete text of The Ohio State University Endowment Summary, February 16, 1990, page 851.)
(See Appendix LV for charts on The Ohio State University OSU Foundation & Development Fund Receipts and The Ohio State University Campaign Progress Report, page 861.)

--0--

ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

The Academic Affairs Committee met this morning and Continuing Education was reported on by Lance Kramer, Assistant Provost for Continuing Education. He focused on significant trends and new developments in Continuing Education. Two noteworthy observations were: 10-13 percent of the students in the Continuing Education enrollment unit are minorities; and that since 1983 The Ohio State University has won more national program awards for innovation and excellence than any other college or university in the United States. I was glad to hear this. They plan to expand this program.

Also, the Academic Affairs Committee is recommending the following resolutions for approval:
March 2, 1990 meeting, Board of Trustees

Distinguished Service Awards

Background

Richard L. Armitage

Richard L. Armitage's 30-year career is notable not only for its variety, but also its quality. As a member of the faculty in Romance Languages, dean of the graduate school, ombudsman, and vice president for student affairs, Professor Armitage's sustained commitment to excellence greatly enhanced the quality of The Ohio State University.

While serving as Dean of the Graduate School, Professor Armitage put into place many of the organizational structures and quality control measures still effective today. He made a commitment to increasing minority enrollment at the graduate level, and initiated several fellowship programs to bring the very best graduate students to Ohio State.

Professor Armitage's proven skills as an effective problem solver led to his being named the first University Ombudsman. He served as Vice President for Student Affairs in the early 1970's. An excellent communicator, he worked well with diverse student groups and interests, fostering relations between students, faculty, and administration. He provided strong leadership to the area at a challenging time in higher education.

For his capable leadership, his vision, and his embodiment of academic excellence, Professor Armitage is eminently qualified for a Distinguished Service Award.

Jack L. Beal

In teaching, research, and related service, Jack L. Beal's 34 years at The Ohio State University have been noteworthy. Professor Beal is an internationally recognized scholar and researcher in the field of pharmacognosy, the study of the chemistry and pharmacology of natural drug products. He is a Fellow of the Academy of Pharmacy Sciences and a former editor of the Journal of Natural Products. Widely published, Professor Beal has been a visiting lecturer at universities around the world.

Upon receiving his Ph.D, degree from Ohio State in 1952, Professor Beal joined the faculty of the College of Pharmacy, teaching both undergraduate and graduate pharmacy classes. He was an effective advisor with a reputation for caring deeply about students. As Associate Dean of Pharmacy for Graduate and Research Studies, Professor Beal advocated for external support for research.

Professor Beal pioneered a highly successful alumni relations project in the college which renewed and improved its relationships with pharmacy alumni and led to the formation of the college's alumni association. With characteristic energy, Professor Beal improved communication with graduates and has provided leadership for important support of the college by its alumni.

Jack L. Beal has given selflessly to the College of Pharmacy and The Ohio State University. His initiative, commitment, and contributions make him most worthy of the Distinguished Service Award.
Distinguished Service Awards (contd)

Background (contd)

Francille M. Firebaugh

Francille M. Firebaugh's varied and distinguished career has been marked by her contributions to community and world affairs. She served The Ohio State University as Vice Provost for International Affairs, Associate Dean of Agriculture and Home Economics, and Director of the School of Home Economics. As testimony to her effective leadership, she was Acting Vice President for Agricultural Administration and Executive Dean of Agriculture, Home Economics, and Natural Resources, and later Acting Vice President for Academic Affairs and Provost.

Professor Firebaugh has been active in international affairs as a consultant in India to the University of Udaipur, the University of Agra, the University of Delhi, and the University of Madras. She served as a member of a Presidential Agricultural Mission to Egypt. Her consultations also include a number of universities in the United States and Canada. Her reputation truly extends world-wide.

Co-author of two widely used home economics textbooks, Professor Firebaugh has been a national leader in several professional associations in home economics. She regularly taught family resource management at both the undergraduate and graduate levels at Ohio State.

An exemplary university citizen, an accomplished administrator, and a noted home economist, Francille Firebaugh is most deserving of the Distinguished Service Award of The Ohio State University.

Charles R. McMurray

Charles R. McMurray is a tireless volunteer and effective leader on behalf of The Ohio State University. Since receiving his degree in 1950, Mr. McMurray has worked diligently to enhance the quality of the student experience at the University.

A two-term member of the Alumni Advisory Council, Mr. McMurray also has served on the WOSU-TV Board of Governors, the Office of Minority Affairs Community Advisory Council, and the Athletic Council. Known to be a well-prepared and dedicated committee member, Mr. McMurray has accepted leadership roles within these volunteer capacities. On the Athletic Council, he has been chair of the ticket committee and a member of the executive committee.

In 1979, he helped establish a scholarship fund through the Merry Makers Club of Columbus, to increase opportunities for higher education among minority students. Through this and other initiatives, Mr. McMurray has encouraged students to reach their academic goals.

Because his enthusiasm for this University is well-known, Mr. McMurray serves as an outstanding ambassador for Ohio State in all of his many civic and professional activities. He is a model of service to his alma mater and is eminently qualified for the Distinguished Service Award.

Alex and Betty Schoenbaum

Among The Ohio State University's most enduring friends are Alex and Betty Schoenbaum. Their loyalty to this University derives from their own positive experiences as students, and from their shared commitment to making a quality education available to future generations of Ohio State students.
Alex and Betty Schoenbaum (contd)

Alex and Betty Schoenbaum met on the Ohio State campus. Mr. Schoenbaum received the bachelor of science degree in 1939, and went on to a successful career as the founder and director of Shoney’s, Incorporated. A two-time All American football player, Mr. Schoenbaum is volunteer chair of the University’s Campaign for Athletic Excellence.

A past director of the University’s Development Fund, Mr. Schoenbaum is a member of the National Steering Committee for The Ohio State University Campaign. As longtime supporters of the University, Mr. Schoenbaum became a Presidents Club member in 1964, and Mrs. Schoenbaum joined in 1974. Together they now are members of the Presidents Cabinet, the highest recognition level of the Presidents Club.

In 1966, the Schoenbaums established the Schoenbaum Fund to support graduate instruction and research in Business Administration. More recently, they have established a fund to provide full scholarships for as many as fourteen business and education students.

Although they are longtime residents and prominent members of communities outside Ohio, the Schoenbaums have kept The Ohio State University as a presence in their lives. They have given significant inspiration and leadership among our alumni and friends, serving as models for devotion to their alma mater. They are most deserving of the Distinguished Service Award.

DISTINGUISHED SERVICE AWARDS

Resolution No. 90-84

Synopsis: The Academic Affairs recommended for six individuals to receive Distinguished Service Awards.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended six individuals for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipients:

Richard L. Armitage
Jack L. Beal
Francille M. Firebaugh
Charles R. McMurray
Alex Schoenbaum
Betty Schoenbaum

and

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and the awards are in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Awards be approved for awarding as designated above.
DISTINGUISHED SERVICE AWARDS (contd)

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

DISTINGUISHED SERVICE AWARD

Resolution No. 90-85

Synopsis: The Academic Affairs Committee recommended the posthumous presentation of the University's Distinguished Service Award to James V. Warren is proposed.

WHEREAS James V. Warren's twenty-five year career at The Ohio State University has had a significant impact on the field of cardiovascular research and on the careers of many of his graduate students; and

WHEREAS Dr. Warren was a nationally recognized researcher and was credited for innovative studies in cardiac catheterization and congestive heart failure; and

WHEREAS having served as chairperson of the Department of Internal Medicine for 18 years, Dr. Warren's leadership, coupled with his brilliant clinical and research careers, advanced the reputation of the program to national prominence; and

WHEREAS the President's Staff serving as a Committee on Distinguished Service Awards, recommended on January 31, 1990, James V. Warren for approval by the Board of Trustees to receive posthumously the Distinguished Service Award in accordance with guidelines established by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the University and the Board of Trustees honor Dr. Warren's memory with the Distinguished Service Award for his significant contributions to The Ohio State University in the field of cardiovascular research; and

BE IT FURTHER RESOLVED, That the Distinguished Service Award for James V. Warren be presented posthumously at a time convenient to the University and the family of the recipient.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Scott:

Mr. Chairman, we should note that Dr. Warren was one of the more distinguished medical faculty persons and this award will be presented posthumously at some point during the year.

--0--
March 2, 1990 meeting, Board of Trustees

Honorary Degree

Background

Leonard L. Haynes, III

Dr. Leonard L. Haynes, III received his B.A. from Southern University, his M.A. from Carnegie-Mellon University and his Ph.D. in Higher Education Administration from The Ohio State University.

Dr. Haynes was appointed by President George Bush to be Assistant Secretary for Postsecondary Education in the U.S. Department of Education. In this capacity, Dr. Haynes is the Department of Education's spokesman for postsecondary education issues affecting the nation's institutions of higher learning.

Since 1969, Dr. Haynes has taught and served in a number of administrative positions at both the secondary and collegiate levels. His administrative positions included: Assistant Superintendent, Office of Academic Programs, Louisiana State Department of Education; Executive Vice President and System Vice President for Academic Affairs, the Southern University (Louisiana) System; Director, Office for the Advancement of Public Black Colleges, an Office of the National Association of State Universities and Land Grant Colleges; and Director of the Ford Foundation -- sponsored Desegregation Policy Studies Unit, Institute for Services to Education.

Dr. Haynes is a member of many professional associations and organizations and has written extensively on higher education desegregation and related issues affecting equity in postsecondary education. His contributions to higher education are noteworthy and his accomplishments are a reflection of the high esteem in which he is held by his colleagues.

HONORARY DEGREE

Resolution No. 90-86

Synopsis: The Academic Affairs Committee recommended the approval of awarding an honorary degree to Leonard L. Haynes, III.

WHEREAS pursuant to paragraph (C) of rule 3335-3-03 of the Administrative Code, the President, after consultation with the Steering Committee of the University Senate, recommended to the Board of Trustees awarding of an honorary degree as listed below:

Leonard L. Haynes, III

Doctor of Laws

NOW THEREFORE

BE IT RESOLVED, That the above honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
Helen P. Alkire

Helen P. Alkire received her B.S.Ed. and her M.A. from The Ohio State University. She has also studied professionally with the Martha Graham School of Dance and the Charles Wiedman School of Dance.

Helen Alkire is a central figure in any historical consideration of the development of dance as a significant art form in American education. Her eminence in the field and extensive contributions are nationally recognized and valued. She has always been in the vanguard of those who have articulated the concept of serious and significant art forms as major components of a university’s mission. Because she has had profound and intimate knowledge of both the art of dance and the idea of a university, she was remarkably successful in creating a model program that is reflective of these concepts.

For 40 years, Helen Alkire was directly involved in dance studies at this university; first as a teacher, then as an administrator. As a performing artist, director and producer she has credits which extend over half a century and cover a great variety of creative projects. Her brilliant insight into all the demands of this art form have been brought to bear on all that she has done.

Ms. Alkire was one of the first five leaders in the country to pioneer the conception and development of a dance major curriculum and an autonomous Department of Dance. Her vision and fortitude enabled her to establish a program of distinction that was to become the model for dance in higher education. Helen Alkire’s name will always be associated with the history of dance and education in America.

Helen Alkire’s contributions to the dance in higher education are legion -- founding member of Council of Dance Administrators; one of the founders of National Association of Schools of Dance; one of three creators of the American Dance Festival Association. No other single individual in this country has contributed so much to the development of dance in higher education.

Frank H. Netter

Frank H. Netter received his B.S. from the College of City of New York, and his medical education from the New York University Medical School. Dr. Netter studied art at the National Academy of Design and the Art Student League.

The contributions of this superb medical illustrator are known throughout the medical and paramedical world. His artistic talent can be easily compared with those of Alexander Von Humboldt and naturalist John Audobon. In an association with the Ciba-Giegy pharmaceutical company, Dr. Netter has created a unique series of books which can be used by investigators and physicians alike. These volumes contain beautiful anatomic perspectives of human organs that generations of students will benefit from for years to come. The complex physiologic and essential scientific facts as they relate to organ functions are beautifully integrated by this dean of master artists. He has structured information into useful knowledge. Since the time of the anatomic drawings of renaissance artist Andrea Vesalius, the work of Frank H. Netter is a significant contribution to medical science. His meticulously planned drawings have influenced the quality of biomedical illustrations of educators throughout the land. He has created a new standard of excellence for artists. As far as the history of medicine is concerned, Dr. Netter will be rated as one of the top clinical scientists, an influential educator, and very gifted artist.
March 2, 1990 meeting, Board of Trustees

Honorary Degrees (contd)

William N. Lipscomb, Jr.

Dr. William N. Lipscomb, Jr., received his B.S. from the University of Kentucky, and his Ph.D. in Chemistry from the California Institute of Technology.

Dr. Lipscomb, Nobel Laureate, is one of America's foremost structural chemists whose work spans the range of modern chemistry from his seminal work on the bonding and spatial architecture of boron hydrides to the three-dimensional structure and mechanism of action of enzymes. His pioneering use of X-ray crystallographic techniques for these diverse groups of molecules has transformed our knowledge of the chemistry and biochemistry of many important compounds. His fundamental research has very major biomedical implications in our understanding of how hormone- and drug-receptor interactions operate and their implications for the treatment of disease. Not only is he a first-class scientist, but Dr. Lipscomb is a true Renaissance Man. He is a superior and caring teacher, an athlete, an accomplished musician, and an outstanding role model. One of his graduate students has become a Nobel Laureate. By his energy, effectiveness as a researcher, and extraordinary ability, Dr. William Lipscomb, Jr., has and continues to contribute tremendously to American and world science.

HONORARY DEGREES

Resolution No. 90-87

Synopsis: The Academic Affairs Committee recommended the approval for awarding three honorary degrees.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of honorary degrees as listed below:

Helen P. Alkire Doctor of Education
Frank H. Netter Doctor of Arts
William N. Lipscomb, Jr. Doctor of Science

NOW THEREFORE

BE IT RESOLVED, That the honorary degrees be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Mrs. Bowser, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the February 2, 1990 meeting of the Board, including the following Changes in Title, Appointment, Appointment of Chairperson of Department, Reappointment of Director of Center, Leaves of Absence Without Salary, and Emeritus Title as detailed in the University Budget be approved; the Medical Staff Appointments/Reappointments approved January 25, 1990, by the Hospitals Board be ratified; and the Honorary Staff --- Appointment for The Arthur G. James Cancer Hospital and Research Institute be approved.

Changes in Title

Name: ROBERT L. ARNOLD
Title: Associate Provost for Instruction and Curriculum
Office: Academic Affairs
Effective: March 1, 1990
Salary: $79,080.00
Present Position: Associate Dean, College of The Arts

Name: JAMES L. NICHOLS
Title: Acting Vice President
Office: Business and Administration
Effective: April 1, 1990
Salary: $90,000.00
Present Position: University Treasurer

Appointment

Name: HAMISH L. FRASER
Title: Professor (Ohio Eminent Scholar in High-Temperature Structural Materials)
Department: Materials Science and Engineering
Effective: October 1, 1989
Salary: $84,960.00
Present Position: Professor, Department of Materials Science and Engineering, University of Illinois

Education:
1970, B.Sc., University of Birmingham, United Kingdom
1972, Ph.D., University of Birmingham, United Kingdom

Experience:
1973-Present
University of Illinois, Department of Materials Science and Engineering
Assistant Professor (1973-78)
Assistant Director, Center for Electron Microscopy (1973-74)
Associate Professor (1978-84)
Professor (1984-Present)

1979-80
Senior Research Scientist, United Technologies Research Center

1986-90
Visiting Professor, University of Liverpool, United Kingdom

1988
Visiting Scientist, Max-Planck Institut fur Metallforschung, Institut fur Werkstoffwissenschaften

1988-93
Professor of Materials Science and Technology (Honorary), University of Birmingham, United Kingdom
March 2, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairperson of Department
February 26, 1990 through June 30, 1994
Educational Policy and Leadership Robert F. Lawson

Reappointment of Director of Center
July 1, 1990 through September 30, 1992
Center for Women's Studies Susan Hartmann

Leaves of Absence Without Salary
REIKO AOKI, Assistant Professor, Department of Economics, effective Spring Quarter 1990, for personal reasons.

STEPHEN J. TURNBULL, Assistant Professor, Department of Economics, effective Spring Quarter 1990, to work on research projects in Japan.

Emeritus Title
RICHARD D. JACKSON, Office of Business and Administration with the title Vice President Emeritus, effective May 1, 1990.

Medical Staff--Appointments
MARILYN K. KOSIER, M.D., Courtesy Staff, Ophthalmology
PATRICIA A. NOFZINGER, M.D., Limited Staff, Pediatrics
TOMASZ J. PASIERSKI, M.D., Limited Staff, Division of Cardiology
STEVEN TEICH, M.D., Attending Staff, Division of Pediatric Surgery
DAVID J. UTLAK, M.D., Courtesy Staff, Division of Cardiology

Medical Staff--Reappointments
REX G. BICKERS, M.D., transfer from Attending to Courtesy Staff, Pediatrics

STEPHAN J. VIVIAN, M.D., Limited Staff, Division of Cardiology

Honorary Staff -- Appointment
GERTRUDE B. ELION, Honorary Staff, The Arthur G. James Cancer Hospital and Research Institute.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
March 2, 1990 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM

Resolution No. 90-89

Synopsis: The Academic Affairs Committee recommended the approval of three Resolutions in Memoriam for Marjorie L. Brunner, Lawrence E. Kunkle, and Robert M. Mayer.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Marjorie L. Brunner

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 12, 1989, of Marjorie L. Brunner, M.S., Adjunct Assistant Professor in the School of Allied Medical Professions.

Marjorie Brunner received a bachelor's degree in zoology from Miami University (Oxford, Ohio); a certificate in medical technology, as well as a master's degree from The Ohio State University; and was in the process of completing work on a Ph.D. in Education at The Ohio State University. Mrs. Brunner began working at The Ohio State University in 1965 as a medical technologist in the Clinical Laboratories, The Ohio State University Hospitals. She served on the faculty in the School of Allied Medical Professions between 1969 and 1972; was appointed director of the School's Office of Continuing Education in 1978; and as an Adjunct Assistant Professor in 1989.

Mrs. Brunner had a profound influence on both the faculty and students. As an instructor, she was known for her teaching excellence and ability to relate positively to students. As director of continuing education, she gave the School national recognition for the quality of excellence the continuing education programs offered. She was a member of the Editorial Board of the Journal of Allied Health and had numerous professional publications. Marjorie Brunner was a devoted wife to her husband Frederick and mother to her children, Kimberly and Daniel. She was known as a person who lived life passionately. Her energy and enthusiasm were an inspiration to the faculty and staff of the School. Marjorie Brunner will be missed but her contributions will always be remembered.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Lawrence E. Kunkle

The Board of Trustees of The Ohio State University expresses its sorrow upon the death, January 17, 1990, of Lawrence E. (Larry) Kunkle, Professor Emeritus in the Department of Animal Science.

Lawrence Kunkle was born November 6, 1909, in Lawrenceville, Clark County, Ohio. He received his education at Moorefield High School, The Ohio State University ('32, '33), and M.I.T. At Ohio State he studied in the Department of Animal Husbandry (now Animal Science) specializing in meat science. In 1934, he accepted a faculty position to give leadership to the fledgling meat science program which he pursued until his retirement in 1972. With his visionary leadership and "shoulder to the wheel" dedication, he developed a premier program recognized at home and abroad, in academic circles and in industry, as a most outstanding base for meat science teaching and carcass research. Early in Dr. Kunkle's career his research on carcass evaluation established unique methods and criteria which remain valuable to this day.
RESOLUTIONS IN MEMORIAM (contd)

Lawrence E. Kunkle (contd)

Professor Kunkle's gracious relationship with students is especially noteworthy. He was a tremendous inspiration to hundreds of students who were employed in his Meat Laboratory and the thousands of students who elected to sit in his classroom for one and usually more of the six courses he developed. Dozens of graduate students benefited from his guidance. Professor Kunkle's open-door policy provided time in his schedule for students: he befriended the freshmen arriving on a large campus, helped them develop meaningful academic programs, entertained them in his home, assisted them in identifying appropriate employment, and maintained contact with them after graduation.

In his 40 plus years of service to the University, Dr. Kunkle displayed genuine loyalty, dedication and a full measure of helpfulness. He authored many scientific publications and a textbook; served on the University Senate and Graduate Council; was President of the Faculty Club; coached the intercollegiate meat judging team for 18 years; and gave service as Historian and President of Gamma Sigma Delta, the international honor society of agriculture. Professor Kunkle's accomplishments of his full and busy life were acclaimed by his peers and a few of those recognitions included the Distinguished Service Award bestowed by The Ohio State University at the Summer 1980 commencement; the Distinguished Alumni Award of the College of Agriculture; a portrait of Professor Kunkle hangs in the Ohio Agricultural Hall of Fame; the prestigious R. C. Pollock Award bestowed by the American Meat Science Association; and Fellow in the American Society of Animal Science.

Dr. Kunkle is survived by his wife of 51 years, Louise (OSU, June '32), sons Lawrence, Jr., and Lynn, and three grandchildren.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed this his resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Robert M. Mayer

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on October 6, 1989, of Robert M. Mayer, Professor in the Department of Chemistry.

Professor Mayer was born June 25, 1936, in New York City. After receiving a Bachelor of Science degree in Chemistry in 1957 at West Virginia University, he obtained his graduate education at George Washington University, where he earned an M.S. degree in 1959, and a Ph.D. in 1963. After working in the United States Public Health Service for two years, and as a postdoctoral researcher at Johns Hopkins for another two years, Professor Mayer was appointed Assistant Professor of Chemistry at The Ohio State University in 1967. He was promoted to Associate Professor and then Professor in 1973 and 1985, respectively. He assumed the position of Vice Chairperson in the Department of Chemistry in 1982, and then Acting Chairperson in 1988.

Professor Mayer's research efforts were primarily in the characterization of the polysaccharide dextran and in the elucidation of its biosynthesis by the enzyme dextran sucrase. Stemming from this interest was his work on the participation of this polymer in the formation of dental caries. During the course of his career at The Ohio State University, he educated 25 graduate and postdoctoral students.
March 2, 1990 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Robert M. Mayer (contd)

As a member of The Ohio State University faculty, Professor Mayer was influential in shaping the discipline of biochemistry on this campus. With his arrival, he helped found the Division of Biological Chemistry in the Department of Chemistry. It was largely through his efforts that this Division has grown to its present maturity. Dr. Mayer was also instrumental in establishing The Ohio State University Biochemistry Program, a campus-wide interdisciplinary graduate program that joined biochemists from the Departments of Biochemistry, Chemistry, Physiological Chemistry, and other academic units in a joint effort to educate biochemistry graduate students. He also served as that program's Graduate Committee Chairman in the years 1984-85 and 1986-87. But Dr. Mayer will be best remembered by the Chemistry Department graduate students for his efforts on their behalf during his tenure as Vice Chairperson. It was in that role that he was responsible for graduate student education. With tact and wisdom he helped guide each individual student from the moment each one entered the graduate program until they were ready to accept a degree.

On behalf of the University community, the Board of Trustees expresses to the family of Dr. Mayer its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends, students and associates have sustained.

Mrs. Bowser:

I would like to move that because Dr. Kunkle was a very special friend of mine.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Shumate:

The Student Affairs Committee heard a report this morning from Lawrence E. Johnson, Deputy Chief of University Police, and Dr. Russell J. Spillman, Vice Provost for Student Affairs. The report was on the results of a study by a working group on personal safety. Dr. Spillman had previously appointed this eight member working group and Mr. Johnson served as the chair of the group. The working group studied crime statistics and existing programs and recommended ten measures to increase personal safety for students, faculty, and staff. The recommendations will be further developed and prioritized for implementation by a new permanent committee which will be called the "Campus Area Personal Safety Advisory Committee."

Reports of crimes and attempted crimes to University Police have remained relatively stable since 1980, Mr. Johnson said. In 1989, police reports included 2,517 for crimes including four rapes, sixty-seven assaults and over 1,300 thefts. Crimes occurring off-campus in the University area, which were reported to the Columbus Division of Police, have increased slightly, but steadily, during the period to more than 5,000 incidents in 1989. Among the working group's ten
March 2, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Shumate: (contd)

recommendations which will be studied by the permanent advisory committee are the following:

1. To increase the number of University police officers.
2. To provide personal safety training for faculty, students, and staff.
3. To improve the lighting in the campus area.
4. To create a campus campaign fund through which faculty, staff, and students could ear-mark donations for improving personal safety on campus.

Another recommendation was to implement a campaign to "walk the blue line of safety," in which painted blue lines on streets, side walks, etc., would indicate the safest routes to on and off campus destinations. Dr. Spillman told the members of the committee that he has asked the advisory committee to prioritize the existing recommendations; to catalog the existing current programs on campus; and recommend additional initiatives for implementation. The advisory committee will make recommendations to the Vice Provost for Student Affairs and Vice President for Business and Administration. Are there any questions?

I would also note, Mr. Chairman, that we did receive the participation of the President for Inter-Professional Council, Steve Diebert, during this presentation on personal safety, as well as David Straub, President of the Undergraduate Student Government. We did receive the student government committee reports as well and they did note that the student governments have submitted five names to the Governor for recommendation for the appointment to the Student Trustee position that will become available this summer. That completes my report.

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

The Agricultural Affairs Committee met this morning and heard a report from Dr. Mohan K. Wali, who is the new Director of the School of Natural Resources. He gave us a very informative slide presentation on environmental concerns internationally, as well as nationally and on the State level. After the presentation, there was a discussion about the School's interaction with the State. We also discussed undergraduate enrollments and were pleased to find that there has been a 24 percent increase in that School. I think all of us felt that Dr. Wali's presentation was one of the best we have had and that with his enthusiasm and leadership we are going to see some very exciting things come out of the School of Natural Resources. That completes my report.
March 2, 1990 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

Mr. Wexner:

Mr. Kessler asked me to ask you if you knew the total commitment that had come out of, I believe it is the School of Agriculture budget, in support of the Columbus AmeriFlora budget for faculty, leaves of absence, facilities, public relations, etc. It is his concern that there is a substantial amount of money allocated, and in a discussion that he and I had, neither one of us knew.

Mrs. Bowser:

I can't answer that question.

Dr. Warmbord:

I don't now the number off-hand, but we can provide it.

Mrs. Bowser:

All right, we will get it back to Mr. Kessler.

Mr. Wexner:

I would like to know, too. As a Board member, I'm supportive of the Columbus community, but also responsible to the University. My suspicion is that it is quite substantial.

Mr. Teaford:

Another thing, though, is that we are the greatest beneficiary of it. They are building a facility to hold and quarantine plants on our campus that we will have when it's over.

Mr. Wexner:

I'm just ignorant, I don't know whether it is $1 million or $10 million.

Mr. Teaford:

And, also, there is a building that will be built over there that will then be brought back here after AmeriFlora.

Ms. Casto:

It is a question that I have had, too.

Mrs. Bowser:

It is a good question.

Mr. Teaford:

I think the report should include what we are going to get out of it, too.
March 2, 1990 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

Ms. Casto:

It might be good to do an AmeriFlora report.

Mr. Berry:

Why couldn't we have it reported at the next committee meeting and then you could report to the full Board?

Mrs. Bowser:

Fine, we will do that.

(See Appendix LVI for complete report on the School of Natural Resources, page 865.)

FISCAL AFFAIRS COMMITTEE REPORT

Amb. Wolf:

The Fiscal Affairs Committee is recommending the following resolutions for approval:

Waivers of Competitive Bidding Requirements  
October - December 1989

Background

During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 31 waivers of competitive bidding requirements. Annual purchases authorized by these waivers total approximately $1,851,600.00. The purchases included:

- Emergency Helicopter Transport Services: $864,500 (1 waiver)
- Professional Medical Services: $100,000 (1 waiver)
- Other Hospital Patient Care Services: $103,724 (4 waivers)
- Wexner Center Opening: $234,886 (6 waivers)
- Administrative Support Services: $189,308 (4 waivers)
- Construction & Repair Equipment & Services: $145,444 (5 waivers)
- Teaching, Research & Library Equipment & Services: $108,609 (5 waivers)
- Conference Facilities & Catering: $62,600 (2 waivers)
- Artists & Attractions: $42,505 (3 waivers)
March 2, 1990 meeting, Board of Trustees

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
OCTOBER - DECEMBER 1989

Resolution No. 90-90

Synopsis: The Fiscal Affairs Committee recommended acceptance of the quarterly report on waivers of competitive bidding requirements.

WHEREAS the Purchasing Policy of The Ohio State University, adopted by the Board of Trustees on September 7, 1984, provides that the President and/or the Vice President for Business and Administration may grant a waiver from competitive bidding in the event of an emergency, when a sufficient economic reason exists, or when goods or services can be purchased from only a single source, with a report on such waivers to be made quarterly to this Board; and

WHEREAS the Vice President for Business and Administration has submitted a report on waivers of competitive bidding requirements granted for the period of October-December 1989, and the Fiscal Affairs Committee recommends the acceptance of this report:

NOW THEREFORE

BE IT RESOLVED, That the report on waivers of competitive bidding requirements for the period of October-December 1989, is hereby accepted.

Upon motion of Amb. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 90-91

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summary for January 1990.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of January 1990 be approved.

Upon motion of Amb. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR JANUARY 1990

<table>
<thead>
<tr>
<th>Background</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE OHIO STATE UNIVERSITY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Foundation</td>
<td>104</td>
<td>$9,994,769.62</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>87</td>
<td>$1,071,327.00</td>
</tr>
<tr>
<td>Total</td>
<td>191</td>
<td>$11,066,096.62</td>
</tr>
<tr>
<td>THE OHIO STATE UNIVERSITY DEVELOPMENT FUND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment of Designated Chair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Edward Orton, Jr., Chair in Ceramic Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Establish a designated chair)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment of Named Funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Richard Lambert Harris Flute Scholarship Fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Scholarships for outstanding flutists)</td>
<td></td>
<td>$23,861.55</td>
</tr>
<tr>
<td>The Norwood H. and Helen M. Meyer Scholarship Fund</td>
<td></td>
<td>$18,000.00</td>
</tr>
<tr>
<td>in Pharmacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Scholarships)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Orton Hall Fund</td>
<td></td>
<td>$17,920.00</td>
</tr>
<tr>
<td>(Used by the Department of Geology and Mineralogy to provide support for</td>
<td></td>
<td></td>
</tr>
<tr>
<td>the facilities and activities of Orton Hall)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical Research Facility Endowment Fund</td>
<td></td>
<td>$15,000.00</td>
</tr>
<tr>
<td>(Support planning, design, construction and/or operation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Robert L. Folk Academic Excellence Scholarship Fund</td>
<td></td>
<td>$15,000.00</td>
</tr>
<tr>
<td>(Scholarships to medical students)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Geography Faculty and Alumni Fund</td>
<td></td>
<td>$15,000.00</td>
</tr>
<tr>
<td>(Scholarships, prizes, and other expenditures)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Donald E. and Joan E. Herr 4-H International Programs Fund</td>
<td></td>
<td>$15,000.00</td>
</tr>
<tr>
<td>(Support Ohio delegates)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR JANUARY 1990 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The Mary Karrer Memorial Fund
(Honor teachers or librarians who contribute to developing children's love and appreciation of good books) $15,000.00

The Psychiatric Hospital Building Fund
(Used to offset the costs of the proposed psychiatric hospital and support its academic program) $15,000.00

The Ben A. Zuckerman Memorial Scholarship Fund
(Scholarships - College of Business) $15,000.00

The Ohio State University Foundation

Change in Description of Named Chair

The John Deaver Drinko - Baker & Hostetler Chair in Law
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - January 1990

Federal Research Contracts/Grants


$366,822.00 - Smithsonian Institute, Washington, D.C., Research and Documentation at the Center for Art and Archaeology of the American Institute of Indian Studies at Varanasi, India, Department of History of Art (S. L. Huntington), 1 July 1989 through 30 June 1990. (Project 767972 - New)

$344,860.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Program (P. E. Kolattukudy), 1 January 1990 through 31 December 1990. (Project 766224 - Continuation)

$338,793.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1990 through 31 December 1990. (Project 761094 - Continuation)


$300,283.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Educational Resources Information Center (ERIC) Clearinghouse on Adult, Career, and Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 January 1990 through 31 December 1990. (Project 766522 - Continuation)

$222,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Anchored Cell Analysis and Sorting Cytometer DRR-BRS Shared Instrumentation Grant, Department of Veterinary Pathobiology (L. E. Mathes), 18 January 1990 through 17 January 1991. (Project 768071 - New)

$189,093.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1990 through 31 December 1990. (Project 780578 - Continuation)

$186,689.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Function and Assembly of Carbon Dioxide Assimilatory Enzymes, Department of Microbiology (F. R. Tabita), 1 January 1990 through 31 December 1990. (Project 767196 - Continuation)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$169,644.00 - Department of Health and Human Services, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland, Neurochemical Correlates of Cerebellar Development, Department of Pharmacology (A. Rotter), 1 December 1989 through 30 November 1990. (Project 767074 - Continuation)

$155,643.00 - Department of Health and Human Services, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, B[a]P-Metabolism and Modification of DNA in Human Skin Xenograft, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 1 January 1990 through 31 December 1990. (Project 766549 - Continuation)

$151,738.00 - Department of Health and Human Services, National Institute of Environmental Health Services, Research Triangle Park, North Carolina, DNA Damage Following Exposure to Genotoxin, Department of Radiology (A. A. Wani and S. M. D'Ambrosio), 1 December 1989 through 30 November 1990. (Project 762787 - Continuation)

$141,289.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Characterization of a Mouse Recombination Hot Spot, Department of Microbiology and Immunology (W. P. Lafuse), 1 January 1990 through 31 December 1990. (Project 767995 - New)

$138,929.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Interdisciplinary Research on Wear of Materials, Department of Materials Science and Engineering (D. A. Rigney), 1 October 1989 through 30 September 1990. (Project 767230 - Continuation)

$134,125.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Support of Defects Investigations, Department of Mechanical Engineering (D. A. Guenther), 16 November 1989 through 15 November 1990. (Project 765180 - Continuation)

$133,267.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Cooperative Human Tissue Network, Comprehensive Cancer Center and Department of Pathology (K. Clausen) and Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 January 1990 through 31 July 1990. (Project 765857 - Continuation)

$125,000.00 - National Science Foundation, Washington, D.C., Research in Nuclear Astrophysics, Nuclear Physics, and Fundamental Particles, Department of Physics (R. N. Boyd), 15 January 1990 through 31 December 1990. (Project 768072 - New)

$120,697.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Generic Tasks for Knowledge-Based Problem Solving: Extensions and New Directions, Department of Computer and Information Science (B. Chandrasekaran), 19 December 1989 through 18 December 1990. (Project 767305 - Continuation)

$119,004.00 - Department of Energy, Argonne, Illinois, Hydrological and Geochemical Response and Recovery in Disturbed Arctic Ecosystems, Byrd Polar Research Center and Department of Agronomy (K. R. Everett), 1 January 1990 through 31 December 1990. (Project 764231 - Continuation)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$104,908.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Passivity and Breakdown of Oxide Films on Aluminum Alloys Produced Using Nonequilibrium Processing Methods, Department of Materials Science and Engineering (G. R. St. Pierre), 1 October 1989 through 30 September 1990. (Project 767297 - Continuation)

$103,089.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Molecular Anatomy of Actin Assemblies of BC3H1 Cells, Department of Anatomy (A. R. Strauch), 1 January 1990 through 31 December 1990. (Project 767984 - New)

$101,081.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, The Role of Cytomegalovirus-Endothelial Interactions in Organ Transplantation, Department of Pathology (D. D. Sedmak), 1 January 1990 through 31 December 1990. (Project 767998 - New)

$100,306.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Recombinant Pharmaceutical Protein Production in Eggs, Department of Dairy Science - OARDC (C. P. Hodgson), 1 January 1990 through 31 December 1990. (Project 767179 - Continuation)

$100,000.00 - Department of the Army, Army Materiel Command, Fort Monmouth, New Jersey, Computer-Communication Protocols for ISDNs (Integrated Services Digital Networks), Department of Computer and Information Science (M. T. Liu), 30 November 1989 through 30 September 1990. (Project 766613 - Continuation)

$99,932.00 - National Science Foundation, Washington, D.C., Biostratigraphy and Paleobotany of the Beardmore Glacier Region, Department of Botany (T. N. Taylor) and Byrd Polar Research Center (E. L. Taylor), 1 December 1989 through 30 November 1990. (Project 768061 - New)

$99,914.00 - Department of Defense, Maryland Procurement Office, Fort George G. Meade, Maryland, Antenna Design Techniques for Low Strut Sidelobes, ElectroScience Laboratory, Department of Electrical Engineering (R. C. Rudduck), 22 December 1989 through 21 September 1990. (Project 767990 - New)

$99,773.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Bistatic Range Design Study for Pacific Missile Test Center (PMTC) Milicon-P986 Bistatic Measurement Facility, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 1 January 1990 through 31 December 1990. (Project 768066 - New)

$93,100.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Structure, Function, and Dynamics of P-450 Cytochromes, College of Pharmacy (S. Black), 1 February 1990 through 31 January 1991. (Project 766583 - Continuation)

$84,000.00 - Department of Energy, Argonne, Illinois, Photoinduced Electron Transfer Reactions in Zeolite Cages, Department of Chemistry (P. K. Dutta), 15 January 1990 through 14 January 1991. (Project 767997 - New)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
<th>Principal Investigator</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>$83,109.00</td>
<td>Department of the Army, Army Materiel Command, Aberdeen Proving Ground, Maryland, Unsteady Fluid Motion in Liquid-Filled Containers, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 15 July 1989 through 30 October 1990. (Project 767692 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$75,000.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Multi-Frequency Antennas, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk and L. W. Henderson), 14 December 1989 through 13 December 1990. (Project 768069 - New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$72,814.00</td>
<td>National Science Foundation, Washington, D.C., Structural Relaxation in Oxide Glasses, Department of Materials Science and Engineering (P. K. Gupta), 1 February 1990 through 31 January 1991. (Project 766572 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$70,000.00</td>
<td>National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Jet Noise Production and Radiation, Department of Aeronautical and Astronautical Engineering (J. N. Scott and R. J. Bodonyi), 30 October 1989 through 1 July 1990. (Project 767656 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$63,000.00</td>
<td>Department of Agriculture, Forest Service, Radnor, Pennsylvania, Measurement of Forest Condition and Response Along an Atmospheric Deposition Gradient, Laboratory for Environmental Science - OARDC (J. R. McClanahan), 1 January 1990 through 31 March 1991. (Project 767211 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$61,497.00</td>
<td>National Science Foundation, Washington, D.C., Anodic Oxidation Studies and Their Applications to Organic Synthesis, Department of Chemistry (J. S. Swenton), 1 July 1990 through 30 June 1991. (Project 764494 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$61,370.00</td>
<td>National Science Foundation, Washington, D.C., Quaternary Climatic Record from the Antarctic Peninsula Region, Antarctica, Byrd Polar Research Center (D. H. Elliot), 15 January 1990 through 31 December 1990. (Project 768075 - New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$54,880.00</td>
<td>National Science Foundation, Washington, D.C., Mechanisms of Mercury Toxicity and Carcinogenicity in Cells, Department of Microbiology and Immunology (M. V. Williams), 1 February 1990 through 31 January 1991. (Project 766606 - Continuation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract ID</td>
<td>Description</td>
<td>Start Date</td>
<td>End Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>768085</td>
<td>National Science Foundation, Washington, D.C., Multi-Wavelength Analysis of M81</td>
<td>1 September 1990</td>
<td>31 August 1992</td>
<td></td>
<td></td>
</tr>
<tr>
<td>765379</td>
<td>Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Borehole Geophysical Techniques</td>
<td>1 May 1989</td>
<td>29 April 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>767996</td>
<td>Department of the Navy, Office of Naval Research, Arlington, Virginia, Advances in Identification of Airborne Radar Targets</td>
<td>1 November 1989</td>
<td>1 February 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>767150</td>
<td>Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland</td>
<td>1 January 1990</td>
<td>31 December 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>766242</td>
<td>National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Civil Engineering</td>
<td>1 January 1990</td>
<td>31 December 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>768081</td>
<td>Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Borehole Geophysical Techniques</td>
<td>1 October 1989</td>
<td>30 September 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>767150</td>
<td>Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland</td>
<td>1 January 1990</td>
<td>31 December 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>766242</td>
<td>National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Civil Engineering</td>
<td>1 January 1990</td>
<td>31 December 1990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>768081</td>
<td>Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Borehole Geophysical Techniques</td>
<td>1 October 1989</td>
<td>30 September 1990</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$12,500.00 - Department of Agriculture, Economic Research Service, Washington, D.C., Use of Target Revenues Versus Target Prices in Stabilizing Producer Income, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (M. J. Miranda), 12 April 1989 through 1 January 1991. (Project 767410 - Continuation)

$8,000.00 - National Science Foundation, Washington, D.C., Studies Involving Molecules and Intermediates of Theoretical Interest, Department of Chemistry (L. A. Paquette), 1 September 1990 through 31 August 1991. (Project 766349 - Continuation)

$5,317.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Linking Maternal Employment and Child Care Arrangements to Child Development, Department of Sociology (T. L. Parcel), 1 December 1989 through 30 November 1990. (Project 767226 - Continuation)

$4,000.00 - National Science Foundation, Washington, D.C., Field Theoretic Models of Nuclear and Subnuclear Systems, Department of Physics (R. J. Perry), 1 January 1990 through 31 August 1990. (Project 766657 - Continuation)

$3,321.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Stromal Defects in Retrovirus-Induced Myelosuppression, Department of Veterinary Pathobiology (G. J. Kociba), 1 December 1989 through 30 November 1990. (Project 767232 - Continuation)

$2,888.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Genetic and Molecular Studies of RNA Splicing, Department of Molecular Genetics (P. S. Perlman), 1 December 1989 through 30 November 1990. (Project 763452 - Continuation)

$2,134.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Redox and Electron-Transfer Properties of Flavodoxins, Department of Biochemistry (R. P. Swenson), 1 December 1989 through 30 November 1990. (Project 767166 - Continuation)

$2,042.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Stereochemistry of Enzyme Reactions to Phosphorus, Department of Chemistry (M. D. Tsai), 1 December 1989 through 30 November 1990. (Project 762722 - Continuation)

$1,449.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, A Study of DNA Intercalating Aromatic Amino Azides, Department of Chemistry (M. S. Platz), 1 December 1989 through 30 November 1990. (Project 765804 - Continuation)

$199.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Conformational Peptides to Probe Immune Responses, Department of Obstetrics and Gynecology (P. T. Kaumaya), 1 September 1989 through 31 August 1990. (Project 767913 - Continuation)

TOTAL - FEDERAL AWARDS $7,613,800.00
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants

$565,000.00 - State of Ohio, Department of Transportation, Columbus, Ohio, Application of Global Positioning System (GPS) for Transportation Planning, Center for Mapping (J. D. Bossler) and Department of Geodetic Science and Surveying (C. C. Goad), 1 January 1990 through 1 July 1991. (Project 768076 - New)

$400,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Center for Labor Research, Research and Graduate Studies Administration (T. L. Sweeney), 1 July 1989 through 30 June 1990. (Project 767988 - New)

$200,000.00 - State of Ohio, Department of Aging, Columbus, Ohio, OSU Alzheimer's Disease Research Center, Department of Geriatrics and Gerontology (G. L. Trzebiatowski), 1 July 1989 through 30 June 1990. (Project 766254 - Continuation)

$156,886.00 - State of Ohio, Department of Health, Columbus, Ohio, Care of the High Risk Mother and Infant -- OSU High Risk Perinatal Project, Department of Pediatrics (L. Cordero), 1 October 1989 through 30 September 1990. (Project 765042 - Continuation)

$70,303.00 - State of Ohio, Department of Health, Columbus, Ohio, Outreach Education, Department of Pediatrics (L. Cordero), 1 October 1989 through 30 September 1990. (Project 764100 - Continuation)

$4,025.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Housing as Housing: The Relationship Between Housing Factors and Community Adaptation in Three Client Groups, Department of Life Span Process (L. C. Dzurec), 1 September 1989 through 30 June 1990. (Project 767534 - Continuation)

$523.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Assessing Mental Health and Mental Retardation Professionals' Knowledge of Mental Illness, Mental Retardation, and Mental Illness as It Relates to the Mentally Retarded, College of Social Work (R. M. Ryan), 9 January 1990 through 30 September 1990. (Project 768084 - New)

TOTAL - STATE OF OHIO AWARDS $1,398,340.00

Industrial Research Contracts/Grants

$79,204.00 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1990 through 31 December 1990. (Project 762165 - Continuation)

March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$18,400.00 - Abbott Laboratories, Abbott Park, Illinois, Incidence of Withdrawal Bleeding in Postmenopausal Women Treated with Either Ogen .625 mg. or Premarin .625 mg. and Provera 10 mg., Department of Family Medicine (R. M. Guthrie), 1 January 1990 through 31 December 1990. (Project 767989 - New)

$13,560.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 1 October 1989 through 30 June 1990. (Project 766726 - Continuation)

$8,201.00 - General Motors Corporation, Indianapolis, Indiana, Additions to a Model Test Program on the Gas Turbine Air Intake and Exhaust Systems for the DDG-52 Ship Service Gas Turbine Generators, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 1 January 1990 through 30 March 1990. (Project 767341 - Continuation)

$6,576.00 - Applied R & D, Olmsted Falls, Ohio, Vertical Multi-Junction Photovoltaic Cell, Department of Electrical Engineering (G. J. Valeo), 1 January 1990 through 1 March 1990. (Project 767802 - Continuation)

$2,500.00 - Ross Laboratories, Columbus, Ohio, Surgeons' Attitudes Toward the Use of the Clear Liquid Diet, School of Allied Medical Professions (J. C. Burge), 1 January 1990 through 30 June 1990. (Project 768064 - New)

$1,500.00 - Merck and Company, Rahway, New Jersey, Merck Urine Dose Confirmation Study, Department of Veterinary Clinical Sciences (J. J. Kowalski), 1 August 1989 through 31 December 1989. (Project 767687 - Continuation)

TOTAL - INDUSTRIAL AWARDS $ 151,719.00

Other Non-Federal Research Contracts/Grants

$93,195.00 - Southwest Research Institute, San Antonio, Texas, Hydrogen Absorption and Potential Embrittlement of Candidate High-Level Nuclear Waste Package Containers in the Proposed Tuff Repository Environment, Department of Materials Science and Engineering (B. E. Wilde), 1 January 1990 through 31 December 1990. (Project 767129 - Continuation)


$67,402.00 - Institute of Gas Technology, Chicago, Illinois, Microbial Desulfurization and Denitrification of Eastern Oil Shales, Department of Microbiology (R. M. Pfister), 1 October 1989 through 30 March 1990. (Project 766497 - Continuation)

$65,000.00 - Muscular Dystrophy Association, New York, New York, Genetic Abnormalities of the Duchenne Locus and Mental Retardation, Department of Neurology (D. L. Freidenberg), 1 January 1990 through 31 December 1990. (Project 767994 - New)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)


$49,150.00 - Committee on Institutional Cooperation, Champaign, Illinois, The Alliance for Success, Center for Teaching Excellence (A. S. Pruitt), 1 November 1989 through 30 September 1990. (Project 768067 - New)

$45,000.00 - Columbus Health Department, Columbus, Ohio, Coordination of Patient Services in Clinical Trials, Department of Internal Medicine (R. J. Fass and M. F. Para), 1 July 1989 through 30 June 1990. (Project 767944 - Continuation)

$40,000.00 - The Petroleum Research Fund, Washington, D.C., Cofacial Derivatives of Hexaazatriphenylene, Department of Chemistry (A. W. Czarnik), 1 January 1990 through 31 August 1992. (Project 768063 - New)

$39,640.00 - Purdue University, West Lafayette, Indiana, Inhibitors of Protein Myristoylation as Anticancer Drugs, College of Pharmacy (J. M. Cassady), 1 January 1990 through 31 December 1990. (Project 764147 - Continuation)

$34,000.00 - American Cancer Society, Inc., New York, New York, Synthetic Catalysts That Act on Mononucleosides, Department of Chemistry (A. W. Czarnik), 1 January 1990 through 31 December 1990. (Project 767376 - Continuation)

$33,600.00 - Smith Richardson Foundation, Inc., New York, New York, The Ohio State Program in Military History and Strategic Studies, Department of History (J. J. Lynch), 1 October 1990 through 30 September 1991. (Project 768080 - New)

$31,455.00 - Muscular Dystrophy Association, New York, New York, Calcium$^{2+}$, Drug, and Kinase Modulation of Calcium Channels, Department of Physiological Chemistry (J. D. Johnson), 1 January 1990 through 31 December 1990. (Project 763866 - Continuation)

$25,000.00 - Muscular Dystrophy Association, New York, New York, Cloning of Spinal Muscular Atrophy Candidate Genes, Department of Physiological Chemistry and Department of Neurology (A. M. Burghes and Z. K. Jarai), 1 January 1990 through 31 December 1990. (Project 767991 - New)

$25,000.00 - Research Corporation, Tucson, Arizona, Uncompensated Garnets: A Magnetic Semiconductor, Department of Physics (P. E. Wigen), 1 July 1989 through 30 June 1990. (Project 767985 - New)

$21,400.00 - Asian Government, New York, New York, Indonesian Buddhist Iconography, Department of History of Art (J. Huntington and S. L. Huntington), 1 June 1990 through 1 September 1990. (Project 768060 - New)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$20,021.62 - Children's Hospital Research Foundation, Columbus, Ohio, Evaluation of Flunarizine as a Treatment for Patients with Partial Seizures, Department of Neurology (M. E. Drake, Jr.), 7 December 1987 through 6 April 1990. (Project 766579 - Continuation)

$20,000.00 - American Heart Association, New Jersey Affiliate, North Brunswick, New Jersey, Carnosine as a Non-Mast Cell Histamine Source in Shock and Trauma, Department of Surgery (L. J. Flancbaum), 1 October 1989 through 30 September 1990. (Project 767954 - New)

$19,313.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, English as a Second Language Programs (T. T. Diemer), 1 January 1990 through 15 June 1990. (Project 764972 - Continuation)

$13,890.00 - Battelle Memorial Institute, Columbus, Ohio, Battelle Sport Management Program Internship, School of Health, Physical Education, and Recreation (W. J. Rudman), 1 December 1989 through 30 November 1990. (Project 767979 - New)

$13,298.00 - The Pennsylvania State University, Hershey, Pennsylvania, Hormone Stimulation Plus Chemotherapy in Advanced Breast and Prostate Cancer, Department of Surgery (J. R. Drago), 1 July 1989 through 30 June 1990. (Project 767956 - Continuation)

$12,000.00 - City Colleges of Chicago, Chicago, Illinois, Brookhaven College, Farmers Branch, Texas, Mountain View College, Dallas, Texas, Pellissippi State Technical Community College, Knoxville, Tennessee, Durham Technical Community College, Durham, North Carolina, and Cuyahoga Community College District, Cleveland, Ohio, National Alliance of Community and Technical Colleges, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767681 - Continuation)

$7,164.00 - Iowa State University, Ames, Iowa, Spectroscopic Evaluation of Adhesive Bonds: Linear and Nonlinear Methods, Department of Welding Engineering (L. Adler), 1 October 1989 through 30 September 1990. (Project 768068 - Continuation)

$6,945.00 - Huron County Mental Health Board, Norwalk, Ohio, Special Parenting Project, Cooperative Extension Field Operations (B. J. Wurzel), 1 July 1989 through 30 June 1990. (Project 768059 - Continuation)

$6,000.00 - Iowa State University, Ames, Iowa, Nondestructive Evaluation of Structural Adhesive Bonding for Aircraft Applications, Department of Welding Engineering (S. Rokhtlin), 1 October 1989 through 30 September 1990. (Project 768065 - Continuation)

$3,609.00 - Lawrence County Joint Vocational School, Chesapeake, Ohio, Factors That Influence a Student Not to Enter Into a High School Vocational Curriculum, Department of Agricultural Education (R. K. Barrick), 1 September 1989 through 31 July 1990. (Project 767993 - New)

$2,665.00 - American Nurses' Foundation, Inc., Kansas City, Missouri, Inspiratory Muscle Training: Children with Cystic Fibrosis, Department of Family and Community Nursing (E. H. Sawyer), 1 October 1989 through 30 September 1990. (Project 767999 - New)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$2,601.00 - University of Alaska, Fairbanks, Alaska, Reduction of Magnavox Geoeceiver Tapes for Translocation Positioning of Jakobshavns, Greenland Data, Byrd Polar Research Center (K. C. Jezek), 1 January 1990 through 31 March 1990. (Project 768079 - New)


TOTAL - OTHER NON-FEDERAL AWARDS $ 830,910.62

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$154,510.00 - from Ohio Department of Transportation, Columbus, Ohio, for "Rural Technology Assistance Program," under the direction of the Department of Civil Engineering for the period January 1, 1990 through December 31, 1990. (529836)

Industry and Other Sponsored Research and Development

$71,800.00 - from OMAC, Inc., Albany, Georgia, for "Conduct Wind Tunnel Tests of the Laser 300 L," under the direction of the Department of Aeronautical and Astronautical Engineering for the period December 1, 1989 through November 30, 1990. (312525)

$66,971.00 - from PPG Industries, Inc., Pittsburgh, PA, for "Automotive Glass Antenna Development," under the direction of the Department of Electrical Engineering for the period January 1, 1990 through December 31, 1990. (529835)

$60,000.00 - from IBM, Endicott, New York, for "Automated Inspection Research," under the direction of the Department of Mechanical Engineering for the period October 1, 1989 through December 31, 1990. (529831)

$59,600.00 - from Delco Moraine, Dayton, Ohio, for "Torque Feedback and Self-Tuning Control for ABS Technologies," under the direction of the Department of Electrical Engineering for the period January 1, 1990 through June 30, 1991. (529832)

$56,528.00 - from AITRC, Columbus, Ohio, for "Implementation and Evaluation of Reusable Software Modules," under the direction of the Department of Computer and Information Science for the period September 1, 1989 through June 30, 1990. (529834)

$36,712.00 - from IBM, Endicott, New York, for "Computer-Aided Statistical Process Control," under the direction of the Department of Industrial and Systems Engineering for the period June 15, 1989 through June 15, 1990. (529807, Ext. 1)

$36,618.00 - from EPRI, Palo Alto, CA, for "HVDC Converter Station Electromagnetic Noise Study," under the direction of the Department of Electrical Engineering for the period February 4, 1986 through December 31, 1990. (529714, Ext. 4)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

$34,906.00 - from 35 sponsors of 52 development projects under the direction of two research areas of the College.

$33,000.00 - from General Electric, Cincinnati, Ohio, for "Optical System to Detect the OH Radical," under the direction of the Department of Aeronautical and Astronautical Engineering for the period December 15, 1989 through June 30, 1990. (312527)

$32,000.00 - from various industry for fellowships for the Engineering Research Center for Net Shape Manufacturing, under the direction of the Engineering Experiment Station.

$25,000.00 - from various industry for membership in the Engineering Research Center for Net Shape Manufacturing, under the direction of the Engineering Experiment Station.

$25,000.00 - from IBM Technical Interchange Program, Owego, New York, for "Integrating Component Accumulation and Material Flow to Promote the Efficiency of Assembly Operations," under the direction of the department of Industrial and Systems Engineering for the period May 1, 1988 through December 31, 1989. (529756, Ext. 1)

$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Weldability Test Techniques," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529354, Ext. 1)

$24,800.00 - from McDonnell Douglas Corp., St. Louis, MO, for "Ultrasonic Welding of Peek/Graphite Composites with Ultem Polyetherimide Film on Surface," under the direction of the Department of Welding Engineering for the period December 15, 1989 through June 30, 1990. (529830)

$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Full Penetration in Precision GTAW," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529358, Ext. 1)

$20,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the Department of Electrical Engineering. (312884)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Thermal Stress Modeling of Plastic Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529356, Ext. 1)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Penetration in High Radiance Laser Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529355, Ext. 1)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Silicate Brazing of Ceramics," under the direction of the Department of Materials Science and Engineering for the period July 1, 1989 through June 30, 1990. (529351, Ext. 1)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Creep of Stainless Steel Welds," under the direction of the Department of Materials Science and Engineering for the period July 1, 1989 through June 30, 1990. (529367, Ext. 1)

$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Computer-Aided Tomography," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529361, Ext. 1)

$19,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529370, Ext. 1)

$18,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Real Time Radiographic Control of Arc Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529360, Ext. 1)

$18,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Analytical Electron Microscopy of Weld Metals," under the direction of the Department of Materials Science and Engineering for the period July 1, 1989 through June 30, 1990. (529362, Ext. 1)

$18,000.00 - from Edison Welding Institute, Columbus, Ohio, for "NDE of Composite Materials and Welds," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529352, Ext. 1)

$18,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Characterization of Polymers in Vicinity of Welded Joints," under the direction of the Department of Chemical Engineering for the period July 1, 1989 through June 30, 1990. (529335, Ext. 1)

$17,640.00 - from Chemical Abstracts Service, Columbus, Ohio, for "Editorial Reference Materials: User View," under the direction of the department if Industrial and Systems Engineering for the period November 1, 1989 through October 31, 1990. (529833, Ext. 1)

$16,000.00 - from General Electric, Cincinnati, Ohio, for "Plasma Arc Tunnel System," under the direction of the Department of Aeronautical and Astronautical Engineering for the period September 9, 1987 through December 31, 1989. (312432, Ext. 6)

$15,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529369, Ext. 1)

$15,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Solid State Weld Strength by Ultrasonic Spectroscopy," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529353, Ext. 1)

$15,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Arc Sensing Pool Oscillation for Penetration Control," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529359, Ext. 1)
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

$8,742.00 - from Edison Welding Institute, Columbus, Ohio, for "Off-line Robotic Programming," under the direction of the Department of Welding Engineering for the period July 1, 1989 through March 31, 1990. (529357, Ext. 1)

$4,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Significance of Local Brittle Zone Size," under the direction of the Department of Welding Engineering for the period July 1, 1989 through March 31, 1990. (529368, Ext. 1)

$2,500.00 - from Chemineer, Inc., Dayton, Ohio, for "Heat Transfer in Mixing Systems," under the direction of the Department of Chemical Engineering for the period January 1, 1988 through December 31, 1989. (529745, Ext. 1)

$2,000.00 - from various industry for affiliate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station.

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $916,817.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Designated Chair

The Edward Orton, Jr., Chair in Ceramic Engineering

The Edward Orton, Jr., Chair in Ceramic Engineering was established formally as a designated chair program on March 2, 1990, by the Board of Trustees of The Ohio State University to The Ohio State University Development Fund. This prestigious position is made possible through annual gifts from the Edward Orton Foundation in recognition of the many contributions Mr. Orton made to the ceramic engineering field.

The objectives of the Orton Chair will parallel those of Edward Orton, Jr. The faculty member will provide leadership for ceramic engineering education and research at The Ohio State University, and identify and carry on the tradition founded by Edward Orton, Jr. The selection of the Chair will be made by the Dean of the College of Engineering in consultation with the Edward Orton, Jr., Foundation.

Edward Orton, Jr. is well remembered as the founder of ceramic engineering education in America. In the late 19th century, Edward Orton, Jr. recognized the importance of ceramics and its potential uses in many non-traditional ways. An accomplished mining engineer and geologist, Orton led the effort to make The Ohio State University a leader in ceramic education in 1894. Two years later he established The Edward Orton, Jr., Ceramic Foundation for the benefit of ceramics research and development. His efforts nearly a century ago have led significantly to the international growth of ceramic technologies. The Edward Orton, Jr., Designated Chair in Ceramic Engineering will help The Ohio State University and the U.S. to remain in the forefront of the ceramics field. It also will help commemorate Edward Orton, Jr. for his contributions to the University and to ceramics.
Establishment of Named Funds

The Richard Lambert Harris Flute Scholarship Fund

The Richard Lambert Harris Flute Scholarship Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Richard Lambert Harris (B.S.Ed. '38).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for an outstanding incoming freshman, undergraduate, or graduate student flutist. If no qualified flute student is available, the scholarship shall be made available to an outstanding student in the following order of preference: (1) woodwind, (2) brass instrument, (3) strings, piano or voice. The selection of the recipient(s) shall be made by the Director of the School of Music in consultation with the chairperson of the performance division, the appropriate faculty, and the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Norwood H. and Helen M. Meyer Scholarship Fund in Pharmacy

The Norwood H. and Helen M. Meyer Scholarship Fund in Pharmacy was established March 2, 1990, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Norwood H. Meyer (Pharmacy '25) of Grosse Pointe Shores, Michigan.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students in the College of Pharmacy who have demonstrated a high level of academic achievement. The selection of the award recipients shall be made by the appropriate College of Pharmacy faculty committee in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
Establishment of Named Funds (contd)

The Orton Hall Fund

The Orton Hall Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from anonymous and multiple donors.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of Geology and Mineralogy to provide support for the facilities and activities of Orton Hall. Expenditures from the fund shall be authorized by the chairperson of the Department of Geology and Mineralogy.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Clinical Research Facility Endowment Fund

The Clinical Research Facility Endowment Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from various donors.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for planning, design, construction and/or operation of the College of Medicine Clinical Research Facility. Authorization for expenditures from this fund shall be at the discretion of the Dean of the College of Medicine. The Dean reserves the right to invade the principal to cover related costs and fees if it is deemed necessary.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Robert L. Folk Academic Excellence Scholarship Fund

The Robert L. Folk Academic Excellence Scholarship Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University, with a gift to The Ohio State University Development Fund from various donors.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to The Ohio State University medical students at any level, including entering students, for excellence in academic performance. Awards are to be based solely upon academic merit, except other considerations such as college, university, community service or research efforts may be considered when competing students have otherwise equal academic records. The amount awarded to each student shall not be less than one-half or greater than the current full in-state tuition for The Ohio State University College of Medicine. In any given academic year, all awards shall be of an equal amount. Scholarship recipients shall be chosen by a committee consisting of the Associate Dean for Student Affairs, the Associate Dean for Curriculum, the Director of Medical Humanities, and the President of the Medical Alumni Association in consultation with the Dean of the College of Medicine and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Geography Faculty and Alumni Fund

The Geography Faculty and Alumni Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from geography faculty and alumni.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarships, prizes, and other expenditures recommended by the majority of the faculty of the Department of Geography. Expenditures from the fund shall be authorized by the chairperson of the Department of Geography. Scholarship recipients shall be chosen in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Donald E. and Joan E. Herr 4-H International Programs Fund

The Donald E. and Joan E. Herr 4-H International Programs Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Donald E. Herr (B.S. Agr. '51, Ph.D. Agronomy '65) and Joan E. Herr (M.S. '54) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support one or more Ohio delegates to another country on the International 4-H Youth Exchange (IFYE) Representatives Program. Selection shall be made annually by the Ohio 4-H IFYE Selections Committee. If the Representative Program is eliminated, then the income is to be used to support an Ohio delegate as a 4-H international participant in another 4-H international program.

It is the desire of the donors that this fund should benefit Ohio 4-H and the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Vice President for Agricultural Administration, Ohio Cooperative Extension Service Director, State 4-H Leader, and the Ohio 4-H Foundation Board in order to carry out the desire of the donors.

The Mary Karrer Memorial Fund

The Mary Karrer Memorial Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from family and friends in memory of Mary Karrer (B.S.Ed. '66, M.A. Education '70), an outstanding librarian.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to honor teachers or librarians who have made a significant contribution to developing children's love and appreciation of good books. The "Mary Karrer Award" will be presented annually at the Children's Literature Conference, sponsored by The Ohio State University College of Education. Selection of the award recipients shall be made by a committee of the reviewers for The WEB (Wonderfully Exciting Books), a quarterly review of children's books published by the College of Education. Administrative expenses necessary to select award recipients shall also come from the endowment income. The Dean of the College of Education shall have responsibility for distribution of these funds.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Psychiatric Hospital Building Fund

The Psychiatric Hospital Building Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni, colleagues and friends of the Department of Psychiatry and the College of Medicine.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to offset the costs of developing, building, equipping and maintaining the proposed psychiatric hospital and to support its academic programs. The annual income shall be added to the fund's principal until the University makes a final determination on the financing arrangements of the Psychiatric Hospital. The Dean of the College of Medicine reserves the right to invade the fund's principal to cover building-related costs and fees if it is deemed necessary.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Ben A. Zuckerman Memorial Scholarship Fund

The Ben A. Zuckerman Memorial Scholarship Fund was established March 2, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Dorothy Zuckerman of Columbus, Ohio, in memory of her husband, Ben A. Zuckerman (B.S.Bus.Adm. '24).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for an outstanding student(s) in the College of Business, Department of Accounting & Management Information Systems. Selection of the recipient(s) shall be made by the chairperson and faculty of the Department of Accounting & MIS in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
March 2, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION

Change in Description of Named Chair

The John Deaver Drinko - Baker & Hostetler Chair in Law

The John Deaver Drinko - Baker & Hostetler Chair in Law was established March 7, 1986, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation from John D. Drinko (J.D. '44) and Elizabeth Gibson Drinko of Cleveland, Ohio, the law firm of Baker & Hostetler, Noel F. George (J.D. '32) of Columbus, Ohio, and other partners and associates of Baker & Hostetler. The description was revised May 8, 1987, and again March 2, 1990.

Income provided by the Foundation shall be used on a current basis to provide salary and program support for the work of a distinguished teacher and scholar in the College of Law. Appointment to the Drinko - Baker & Hostetler Chair will be recommended by the Dean of the College of Law to the Provost and approved by The Ohio State University Board of Trustees. At the discretion of the Dean of the College of Law, the income and the principal may be used for the advancement of the College of Law until June 3, 1993. The fund's principal may not be reduced below $1,250,000.

Employment of Architects/Engineers and Request for Construction Bids

Resolution No. 90-92

UNIVERSITY AIRPORT RENOVATION - 1990

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architects/engineers and request construction bids for the University Airport Renovation - 1990 project.
March 2, 1990 meeting, Board of Trustees

EMPLOYMENT OF ARCHITECT/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS (contd)

UNIVERSITY AIRPORT RENOVATION - 1990 (contd)

WHEREAS the University Airport Renovation 1990 project will construct a snow removal equipment and maintenance building, a taxiway "G" extension to runway 9 with hold apron, and a hold apron for taxiway "C" at runway 23; and

WHEREAS the total estimated cost of this project is $1,200,000, with the estimated construction cost being $1,000,000, and with funding provided from a Federal Aviation Administration grant and University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services be negotiated between the firms selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Amb. Wolf, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Request for Construction Bids

Background

1960 Kenny Road Renovation

This project will renovate the 40,960 gross square foot facility located at 1960 Kenny Road to house the University's Research Foundation. Work associated with this project includes demolition, drywall, door replacement, new floor coverings, painting, replacement of all lighting, and installation of an air conditioning unit for the computer room.

Funds for this project are available from University funds. Construction costs for the project are estimated at $1,000,000, equipment costs are estimated at $850,000, and the total estimated project cost is $2,200,000.

Oxley Hall Rehabilitation

This project will rehabilitate this 34,000 gross square foot facility. The work includes updating antiquated mechanical systems, adding handicap accessibility, providing life safety code updates, partial modernization of the sprinkler system, new windows, new and repaired exterior doors, painting, floor covering, and some new ceilings.

Funds for this project are available from University funds. Construction costs for the project are estimated at $1,675,000, and the total estimated project cost is $1,895,000.

(See Appendix LVIII for maps, page 869.)
March 2, 1990 meeting, Board of Trustees

REQUEST FOR CONSTRUCTION BIDS

Resolution No. 90-93

1960 KENNY ROAD RENOVATION
OXLEY HALL REHABILITATION

Synopsis: The Fiscal Affairs Committee recommended authorization to request construction bids for the 1960 Kenny Road Renovation and Oxley Hall Rehabilitation projects.

WHEREAS the 1960 Kenny Road Renovation project will renovate this facility to house the Research Foundation; and

WHEREAS the total estimated cost of this project is $2,200,000, with the estimated construction cost being $1,000,000, and the estimated equipment cost being $850,000, and with funding provided from University funds; and

WHEREAS the Oxley Hall Rehabilitation project will upgrade the worn out mechanical systems, make the facility handicap accessible, and perform miscellaneous life safety code updates; and

WHEREAS the total estimated cost of this project is $1,895,000, with the estimated construction cost being $1,675,000, and with funding provided from University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Report of Award of Contracts and
Establishment of Contingency Funds

Background

(See Appendix LVIV for a complete tabulation of bids on all projects and locator maps, page 873. Amounts shown with an * include accepted alternates.)

Morrill Tower and Lincoln Tower Residence Halls
Upgrade Treatment - Phase I
Lima Technical College - Entrance Road
Magnetic Resonance Imaging/Magnetic Resonance Spectroscopy

Morrill Tower and Lincoln Tower Residence Halls
Upgrade Treatment - Phase I

This first phase of the project will repair and upgrade dormitory and auxiliary spaces on floors 21 and 22 of Morrill Tower. The Phase I total project cost is $804,603; funding is provided from Residence and Dining Halls. The estimated completion date is August 1990. The contracts awarded are as follows:
March 2, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Morrill Tower and Lincoln Tower Residence Halls
Upgrade Treatment - Phase I (contd)

General Contract: Martin Construction, Columbus, Ohio
Amount: $648,500.00
Estimate: $1,100,000.00

Mechanical Contract: Progress Mechanical, Newark, Ohio
Amount: $27,420.00
Estimate: $40,000.00

Electric Contract: Eastmoor Electric, Columbus, Ohio
Amount: $57,050.00
Estimate: $70,000.00

Total All Contracts: $732,970.00

Contingency Allowance: $58,638.45 (8% of construction cost)
Total Project Cost: $804,603.00

Lima Technical College - Entrance Road

This project will provide a new entrance road from State Route 309 to the Lima Campus building complex. A standard two lane asphalt surfaced road, capable of handling high volume automobile traffic, plus limited semi-trailers and smaller truck traffic, with necessary lighting. The total project cost is $653,614; funding is provided from Senate Bill 386 and University funds. The estimated completion date is January 1991. The contracts awarded are as follows:

General Contract: Fort Defiance, Defiance, Ohio
Amount: $454,161.25 *
Estimate: $639,232.00 *

Electric Contract: Joy Electric, Lima, Ohio
Amount: $91,924.83
Estimate: $119,290.00

Total All Contracts: $546,086.08 *
March 2, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Lima Technical College - Entrance Road (contd)

Contingency Allowance: $27,304.94 (5% of construction cost)

Total Project Cost: $653,614.00

Magnetic Resonance Imaging/Magnetic Resonance Spectroscopy

This project will provide a facility of approximately 1,870 gross square feet as a one-floor addition to the northwest corner of Wiseman Hall to house the 4.7 Tesla/40 cm research grade magnetic resonance imaging and spectroscopy instrument which is being purchased by the University through the Department of Radiology. The total project cost is $319,680, funding is available from the College of Medicine. The estimated completion date is June 1990. The contracts awarded are as follows:

General Contract: Williamson Builders, Plain City, Ohio

Amount: $109,500.00

Estimate: $101,250.00

Plumbing Contract: Farber, Columbus, Ohio

Amount: $49,600.00

Estimate: $72,000.00

HVAC Contract: J. A. Guy, Dublin, Ohio

Amount: $25,900.00

Estimate: $36,000.00

Electric Contract: Romanoff Electric, Dublin, Ohio

Amount: $79,400.00

Estimate: $103,140.00

Total All Contracts: $264,400.00

Contingency Allowance: $26,440.00 (10% of construction cost)

Total Project Cost: $319,680.00
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-94

MORRILL TOWER AND LINCOLN TOWER RESIDENCE HALLS UPGRADE TREATMENT - PHASE I LIMA TECHNICAL COLLEGE - ENTRANCE ROAD MAGNETIC RESONANCE IMAGING/MAGNETIC RESONANCE SPECTROSCOPY

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I, Lima Technical College - Entrance Road, and Magnetic Resonance Imaging/Magnetic Resonance Spectroscopy projects.

WHEREAS resolutions adopted by the Board of Trustees on December 1, 1989, and February 2, 1990, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I, and Magnetic Resonance Imaging/Magnetic Resonance Spectroscopy; and

WHEREAS a resolution adopted by the Board of Trustees on November 7, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following project: Lima Technical College - Entrance Road:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the above named projects is hereby accepted.

Upon motion of Amb. Wolf, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Mr. Berry:

Last night, I both had a pleasure in doing a task, as well as taking a calculated risk, by reading an Expression of Appreciation to Richard D. Jackson at a retirement dinner being held in his honor. I would move that we pass on this expression and do request your approval.

EXPRESSION OF APPRECIATION

Resolution No. 90-95

WHEREAS Richard D. Jackson, Vice President for Business and Administration, has announced his retirement from The Ohio State University effective March 31, 1990, and
EXPRESSION OF APPRECIATION (contd)

WHEREAS Vice President Jackson has served Ohio State with distinction for the past decade; and

WHEREAS during this period of time, Mr. Jackson had oversight responsibility for many of the significant changes in the physical dimensions of the University, including the Wexner Center for the Visual Arts, Rhodes Hall, The Arthur G. James Cancer Hospital and Research Institute, and the Woody Hayes Athletic Center; and

WHEREAS in addition to his noteworthy contributions to the changes and improvements to the physical contours of the University, Vice President Jackson has also demonstrated outstanding leadership in the development and implementation of a strategic plan for the modernization of the University's infrastructure, including the installation of the coal fired boiler, and the University Network Integrated Telecommunication System (UNITS), the upgrade of utilities (gas, water, and electrical systems), PCB removal, and steam system improvements; and

WHEREAS Vice President Jackson's record of accomplishment as a public servant has been well documented, e.g., previously serving as Director of Ohio Department of Administrative Services, Director of the Ohio Department of Transportation, and various positions in the Columbus city government;

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby expresses its deep gratitude to Richard D. Jackson for his sustained commitment, dedication, and a job exceptionally well done; and

BE IT FURTHER RESOLVED, That this Board extends to Dick and his wife, Anita, all best wishes for good health, success, and happiness in the future.

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Berry:

On behalf of the Board of Trustees, I would like to say that your work and efforts at the University over the years have certainly been not only appreciated, but very distinguished. We certainly will miss you and hope to see you often. And any time you have any advice, we will listen to it diligently.

Mr. Jackson:

Mr. Chairman, Members of the Board, and all of the University family, I just thank you all so very much for the opportunity to be a part of the family, the opportunity to learn from you, and the opportunity to participate. It has been most enjoyable. While I am looking forward to the future, the past has certainly been most rewarding. Thank you very much.

Mr. Berry:

Thank you.

--0--
March 2, 1990 meeting, Board of Trustees

Mr. Scott:

Mr. Chairman and Members of the Board, historically, one of the things that we have done over the years is make an official photograph of the Board. This is important for the Archives, for our records, and some of you have asked for that photograph. The photo session for this year will be on April 6. Sometimes we can crop in people, but if we have more than one, it is difficult. So I'd like to ask that you please be available. I'll let you know the time, so you can wear your best suit or dress.

And finally, I think we should note, Mr. President that there was a recommendation approved in the Personnel Actions to appoint Gertrude B. Elion to the Honorary Staff of The Arthur G. James Cancer Hospital and Research Institute. The significance is that she is a Nobel Prize winner, and I believe she is the second one that we have on our campus. Is that right, David, don't we have another Nobel Prize winner?

President Jennings:

Professor Wilson.

Mr. Scott:

Thank you, Mr. Chairman.

--0--

Thereupon the Board adjourned to meet Friday, April 6, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott        John W. Berry
Secretary              Chairman
MINORITY STUDENT UNDERGRADUATE ENROLLMENT

Presented to the Board of Trustees March 2, 1990
(See page 797)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>n/a</td>
<td>n/a</td>
<td>2.226</td>
<td>2.246</td>
<td>2.142</td>
<td>1.895</td>
<td>1.888</td>
<td>1.952</td>
<td>1.899</td>
<td>1.939</td>
<td>1.870</td>
<td>1.838</td>
<td>1.837</td>
<td>1.935</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(5.69)</td>
<td>(5.51)</td>
<td>(5.13)</td>
<td>(4.70)</td>
<td>(4.29)</td>
<td>(4.73)</td>
<td>(4.74)</td>
<td>(4.57)</td>
<td>(4.54)</td>
<td>(4.52)</td>
<td>(4.82)</td>
<td></td>
</tr>
<tr>
<td>ASIAN</td>
<td>n/a</td>
<td>n/a</td>
<td>225</td>
<td>353</td>
<td>381</td>
<td>439</td>
<td>538</td>
<td>597</td>
<td>659</td>
<td>755</td>
<td>839</td>
<td>917</td>
<td>967</td>
<td>1.060</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0.65)</td>
<td>(0.86)</td>
<td>(0.91)</td>
<td>(1.06)</td>
<td>(1.30)</td>
<td>(1.44)</td>
<td>(1.64)</td>
<td>(2.05)</td>
<td>(2.26)</td>
<td>(2.38)</td>
<td>(2.64)</td>
<td></td>
</tr>
<tr>
<td>HISPANIC</td>
<td>n/a</td>
<td>n/a</td>
<td>157</td>
<td>195</td>
<td>227</td>
<td>267</td>
<td>296</td>
<td>290</td>
<td>313</td>
<td>334</td>
<td>356</td>
<td>368</td>
<td>436</td>
<td>464</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0.40)</td>
<td>(0.47)</td>
<td>(0.54)</td>
<td>(0.66)</td>
<td>(0.69)</td>
<td>(0.70)</td>
<td>(0.77)</td>
<td>(0.87)</td>
<td>(0.90)</td>
<td>(1.07)</td>
<td>(1.15)</td>
<td></td>
</tr>
<tr>
<td>AMERICAN NATIVE</td>
<td>n/a</td>
<td>n/a</td>
<td>43</td>
<td>42</td>
<td>51</td>
<td>46</td>
<td>54</td>
<td>59</td>
<td>46</td>
<td>42</td>
<td>60</td>
<td>54</td>
<td>59</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0.10)</td>
<td>(0.10)</td>
<td>(0.12)</td>
<td>(0.11)</td>
<td>(0.13)</td>
<td>(0.14)</td>
<td>(0.11)</td>
<td>(0.002)</td>
<td>(0.14)</td>
<td>(0.13)</td>
<td>(0.14)</td>
<td>(0.127)</td>
</tr>
<tr>
<td>TOTALS</td>
<td>n/a</td>
<td>n/a</td>
<td>2.681</td>
<td>2.836</td>
<td>2.801</td>
<td>2.647</td>
<td>2.766</td>
<td>2.808</td>
<td>2.917</td>
<td>3.070</td>
<td>3.125</td>
<td>3.177</td>
<td>3.299</td>
<td>3.510</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(6.85)</td>
<td>(6.96)</td>
<td>(6.70)</td>
<td>(6.56)</td>
<td>(6.72)</td>
<td>(7.02)</td>
<td>(7.26)</td>
<td>(7.26)</td>
<td>(7.64)</td>
<td>(7.84)</td>
<td>(8.13)</td>
<td>(8.74)</td>
</tr>
</tbody>
</table>

**TABLE 1**

THE OHIO STATE UNIVERSITY
MINORITY STUDENT UNDERGRADUATE ENROLLMENT
COLUMBUS CAMPUS
AUTUMN QUARTERS 1976 - 1989

**YEAR:**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>n/a</td>
<td>n/a</td>
<td>2.226</td>
<td>2.246</td>
<td>2.142</td>
<td>1.895</td>
<td>1.888</td>
<td>1.952</td>
<td>1.899</td>
<td>1.939</td>
<td>1.870</td>
<td>1.838</td>
<td>1.837</td>
</tr>
<tr>
<td>ASIAN</td>
<td>n/a</td>
<td>n/a</td>
<td>225</td>
<td>353</td>
<td>381</td>
<td>439</td>
<td>538</td>
<td>597</td>
<td>659</td>
<td>755</td>
<td>839</td>
<td>917</td>
<td>967</td>
</tr>
<tr>
<td>HISPANIC</td>
<td>n/a</td>
<td>n/a</td>
<td>157</td>
<td>195</td>
<td>227</td>
<td>267</td>
<td>296</td>
<td>290</td>
<td>313</td>
<td>334</td>
<td>356</td>
<td>368</td>
<td>436</td>
</tr>
<tr>
<td>AMERICAN NATIVE</td>
<td>n/a</td>
<td>n/a</td>
<td>43</td>
<td>42</td>
<td>51</td>
<td>46</td>
<td>54</td>
<td>59</td>
<td>46</td>
<td>42</td>
<td>60</td>
<td>54</td>
<td>59</td>
</tr>
<tr>
<td>TOTALS</td>
<td>n/a</td>
<td>n/a</td>
<td>2.681</td>
<td>2.836</td>
<td>2.801</td>
<td>2.647</td>
<td>2.766</td>
<td>2.808</td>
<td>2.917</td>
<td>3.070</td>
<td>3.125</td>
<td>3.177</td>
<td>3.299</td>
</tr>
</tbody>
</table>

**SOURCE:** Office of Student Registrar
Student Enrollment Reporting
## MINORITY STUDENT ENROLLMENT

### TOTAL UNIVERSITY

#### Autumn Quarters

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Students</td>
<td>2098</td>
<td>2269</td>
<td>2627</td>
<td>2799</td>
<td>3039</td>
<td>2936</td>
<td>2836</td>
<td>2902</td>
<td>2864</td>
<td>2533</td>
<td>2478</td>
<td>2566</td>
<td>2468</td>
<td>2528</td>
<td>2458</td>
<td>2430</td>
<td>2569</td>
<td>2729</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>182</td>
<td>198</td>
<td>264</td>
<td>270</td>
<td>273</td>
<td>305</td>
<td>342</td>
<td>422</td>
<td>513</td>
<td>607</td>
<td>717</td>
<td>818</td>
<td>879</td>
<td>986</td>
<td>1113</td>
<td>1232</td>
<td>1322</td>
<td>1417</td>
</tr>
<tr>
<td>Hispanic Students</td>
<td>121</td>
<td>99</td>
<td>123</td>
<td>146</td>
<td>181</td>
<td>222</td>
<td>237</td>
<td>283</td>
<td>345</td>
<td>375</td>
<td>404</td>
<td>418</td>
<td>451</td>
<td>472</td>
<td>536</td>
<td>546</td>
<td>627</td>
<td>636</td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>49</td>
<td>72</td>
<td>67</td>
<td>69</td>
<td>75</td>
<td>76</td>
<td>62</td>
<td>57</td>
<td>73</td>
<td>73</td>
<td>87</td>
<td>93</td>
<td>83</td>
<td>75</td>
<td>92</td>
<td>82</td>
<td>101</td>
<td>99</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2450</td>
<td>2658</td>
<td>3081</td>
<td>3284</td>
<td>3568</td>
<td>3541</td>
<td>3477</td>
<td>3674</td>
<td>3793</td>
<td>3588</td>
<td>3586</td>
<td>3895</td>
<td>3881</td>
<td>4061</td>
<td>4199</td>
<td>4290</td>
<td>4619</td>
<td>4881</td>
</tr>
</tbody>
</table>

### Source:

Annual Statistical Summary  
Office of Registration Services
APPENDIX LIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
February 16, 1990

Presented to the Investments Committee and
Adopted by the Board of Trustees March 2, 1990
(See page 801)
### Endowment Composition

**Equities:**

<table>
<thead>
<tr>
<th>Fund</th>
<th>06-30-89</th>
<th>Percent of Equity and Fixed Income</th>
<th>02-16-90</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>$34,629,320</td>
<td>13.98%</td>
<td>$35,064,050</td>
<td>13.44%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>$0</td>
<td>0%</td>
<td>$12,497,807 (1)</td>
<td>4.79%</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>$13,552,018</td>
<td>5.47%</td>
<td>$13,471,274</td>
<td>5.17%</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>$11,475,663</td>
<td>4.63%</td>
<td>$13,081,642</td>
<td>5.02%</td>
</tr>
<tr>
<td>Siebel</td>
<td>$32,173,227</td>
<td>12.98%</td>
<td>$33,537,131</td>
<td>12.86%</td>
</tr>
<tr>
<td>University Managed</td>
<td>$80,168,113</td>
<td>32.35%</td>
<td>$36,737,815</td>
<td>14.08%</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>$0</td>
<td>0%</td>
<td>$10,050,445 (2)</td>
<td>3.85%</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>$0</td>
<td>0%</td>
<td>$28,883,528 (3)</td>
<td>11.07%</td>
</tr>
</tbody>
</table>

**Total Equities**

$171,998,341 | 69.41% | $183,323,692 | 70.28%

**Fixed Income:**

<table>
<thead>
<tr>
<th>Fund</th>
<th>06-30-89</th>
<th>Percent of Equity and Fixed Income</th>
<th>02-16-90</th>
<th>Percent of Equity and Fixed Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust</td>
<td>$23,841,580</td>
<td>9.62%</td>
<td>$22,887,028</td>
<td>8.78%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>$951,048</td>
<td>0.38%</td>
<td>$939,859</td>
<td>0.36%</td>
</tr>
<tr>
<td>Diff &amp; Phelps</td>
<td>$10,243,208</td>
<td>4.13%</td>
<td>$10,122,877</td>
<td>3.88%</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>$0</td>
<td>0%</td>
<td>$9,870,751 (4)</td>
<td>3.79%</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>$24,150,270</td>
<td>9.75%</td>
<td>$23,354,544</td>
<td>8.95%</td>
</tr>
<tr>
<td>University - GNMA</td>
<td>$10,144,887</td>
<td>4.10%</td>
<td>$10,042,907</td>
<td>3.85%</td>
</tr>
<tr>
<td>University Managed</td>
<td>$6,465,211</td>
<td>2.61%</td>
<td>$22,920,520</td>
<td>0.11%</td>
</tr>
</tbody>
</table>

**Total Fixed Income**

$75,796,204 | 30.59% | $77,510,876 | 29.72%

**Total Equities & Fixed Income**

$247,794,545 | 100.00% | $260,834,568 | 100.00%

**Real Estate**

$39,503,844 | $39,696,817

**Total Portfolio**

$287,298,389 | $300,531,385

---

(1) R. Meeder began as advisor on August 8, 1989 with $15,000,000.
(2) Wells Fargo EAFE began as advisor on October 2, 1989 with $10,000,000.
(3) Wells Fargo S&P 500 began as advisor on October 6, 1989 with $30,000,000.
(4) WR Lazard began as advisor on August 8, 1989 with $10,000,000.
Estimated Weighted Average Yield of Endowment Fund

<table>
<thead>
<tr>
<th>Equity:</th>
<th>% Yield</th>
<th>% Change in Market Value February '89 to February '90</th>
<th>Total Estimated Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp.</td>
<td>2.83% (1)</td>
<td>9.68%</td>
<td>12.51%</td>
</tr>
<tr>
<td>R. Meeder</td>
<td>1.15 (2)</td>
<td>(16.68)</td>
<td>(15.53) (13)</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>2.77</td>
<td>8.19</td>
<td>10.96</td>
</tr>
<tr>
<td>Nicholas-Applegate</td>
<td>1.33 (3)</td>
<td>19.94</td>
<td>21.27</td>
</tr>
<tr>
<td>Siebel</td>
<td>5.00 (4)</td>
<td>13.78</td>
<td>18.78</td>
</tr>
<tr>
<td>University Managed</td>
<td>2.23 (5)</td>
<td>10.29</td>
<td>12.52</td>
</tr>
<tr>
<td>Wells Fargo EAFE</td>
<td>0.64</td>
<td>0.50</td>
<td>1.14 (14)</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500</td>
<td>1.29 (3)</td>
<td>(3.72)</td>
<td>(2.43) (15)</td>
</tr>
<tr>
<td>Standard &amp; Poor's Index</td>
<td>3.75</td>
<td>12.12</td>
<td>15.87</td>
</tr>
<tr>
<td>Real Estate:</td>
<td>3.85%</td>
<td>8.42%</td>
<td>12.27%</td>
</tr>
<tr>
<td>Fixed Income:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatmen's Trust</td>
<td>7.78% (6)</td>
<td>6.12%</td>
<td>13.90%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>8.21 (7)</td>
<td>1.48</td>
<td>9.69</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>8.14 (8)</td>
<td>3.86</td>
<td>12.00</td>
</tr>
<tr>
<td>WR Lazard</td>
<td>4.51 (9)</td>
<td>(1.29)</td>
<td>3.22 (13)</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>8.74 (10)</td>
<td>5.00</td>
<td>13.74</td>
</tr>
<tr>
<td>University - GNMA</td>
<td>9.69 (11)</td>
<td>3.24</td>
<td>12.93</td>
</tr>
<tr>
<td>University Managed</td>
<td>13.05 (12)</td>
<td>(11.11)</td>
<td>1.94</td>
</tr>
<tr>
<td>Merrill Lynch Corporate/</td>
<td>9.18</td>
<td>2.84</td>
<td>12.02</td>
</tr>
<tr>
<td>Government Master</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shearson Lehman Hutton</td>
<td>9.14</td>
<td>2.98</td>
<td>12.12</td>
</tr>
<tr>
<td>Corporate Index</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) 0.5% of Chicago Corp. portfolio is made up of cash & cash equivalents earning 7.3%.
(2) 0.7% of R. Meeder portfolio is made up of cash & cash equivalents earning 7.3%.
(3) 1.2% of Nicholas-Applegate portfolio is made up of cash & cash equivalents earning 7.3%.
(4) 37.0% of Siebel portfolio is made up of cash & cash equivalents earning 8.2%.
(5) 27.0% of University Managed portfolio is made up of cash & cash equivalents earning 8.2%.
(6) 0.3% of Boatmen's Trust portfolio is made up of cash & cash equivalents earning 7.3%.
(7) 5.2% of Cambridge portfolio is made up of cash & cash equivalents earning 7.3%.
(8) 0.3% of Duff & Phelps portfolio is made up of cash & cash equivalents earning 7.3%.
(9) 2.2% of WR Lazard portfolio is made up of cash & cash equivalents earning 7.3%.
(10) 1.9% of STW Fixed Income portfolio is made up of cash & cash equivalents earning 7.3%.
(11) 3.0% of University-GNMA portfolio is made up of cash & cash equivalents earning 8.2%.
(12) 0.0% of University Managed portfolio is made up of cash & cash equivalents.
(13) Reflects return from initial allocation (August 8, 1989) only.
(14) Reflects return from initial allocation (October 2, 1989) only.
(15) Reflects return from initial allocation (October 6, 1989) only.
(16) Endowment Fund Income through February 28, 1990, totaled approximately $11,056,000.
(17) Income from University Cash Investments through February 28, 1990, totaled approximately $10,512,000.

<table>
<thead>
<tr>
<th>Change in Total Valuation</th>
<th>Current Fiscal Year to Date</th>
<th>Asset Allocation</th>
<th>02-16-90</th>
<th>Percent of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (06-30-89)</td>
<td>$287,298,389</td>
<td>Equities</td>
<td>$162,692,819</td>
<td>54.13%</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>15,822,398</td>
<td>Fixed Income</td>
<td>76,422,448</td>
<td>25.43</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(280,000)</td>
<td>Real Estate</td>
<td>39,600,000</td>
<td>13.18</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>(2,309,402)</td>
<td>Cash</td>
<td>21,815,118</td>
<td>7.26</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$300,531,385</td>
<td>Total Portfolio</td>
<td>$300,531,385</td>
<td>100.00%</td>
</tr>
</tbody>
</table>
### Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Gain/Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Real Estate

<table>
<thead>
<tr>
<th>Sale</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
<td></td>
</tr>
</tbody>
</table>

---

854
## Common & Preferred Stock

### Purchases Made During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,100</td>
<td>Circus Circus Enterprises, Inc.</td>
<td>Chicago</td>
<td>197,066.50</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>5,600</td>
<td>Cooper Tire &amp; Rubber Co.</td>
<td>&quot;</td>
<td>189,968.30</td>
<td>$</td>
<td>2,016.00</td>
</tr>
<tr>
<td>600</td>
<td>Kelly Services, Inc.</td>
<td>&quot;</td>
<td>19,950.00</td>
<td>$</td>
<td>360.00</td>
</tr>
<tr>
<td>1,400</td>
<td>Kemper Corp.</td>
<td>&quot;</td>
<td>51,891.00</td>
<td>$</td>
<td>1,176.00</td>
</tr>
<tr>
<td>2,000</td>
<td>Lance, Inc.</td>
<td>&quot;</td>
<td>46,684.00</td>
<td>$</td>
<td>1,520.00</td>
</tr>
<tr>
<td>6,000</td>
<td>Lotus Development Corp.</td>
<td>&quot;</td>
<td>171,750.00</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>5,100</td>
<td>MAPCO, Inc.</td>
<td>&quot;</td>
<td>196,044.00</td>
<td>$</td>
<td>5,100.00</td>
</tr>
<tr>
<td>6,300</td>
<td>Safety Kleen Corp.</td>
<td>&quot;</td>
<td>176,809.50</td>
<td>$</td>
<td>2,268.00</td>
</tr>
<tr>
<td>11,100</td>
<td>Standard Register Co.</td>
<td>&quot;</td>
<td>172,050.00</td>
<td>$</td>
<td>5,772.00</td>
</tr>
<tr>
<td>1,300</td>
<td>Wetтарau, Inc.</td>
<td>&quot;</td>
<td>33,312.50</td>
<td>$</td>
<td>780.00</td>
</tr>
<tr>
<td>2,000</td>
<td>Chemical Waste Management, Inc.</td>
<td>Nicholas-Applegate</td>
<td>39,792.00</td>
<td>$</td>
<td>240.00</td>
</tr>
<tr>
<td>7,500</td>
<td>Halliburton Co.</td>
<td>&quot;</td>
<td>330,703.50</td>
<td>$</td>
<td>7,500.00</td>
</tr>
<tr>
<td>8,000</td>
<td>Helmerich &amp; Payne, Inc.</td>
<td>&quot;</td>
<td>261,302.88</td>
<td>$</td>
<td>3,520.00</td>
</tr>
<tr>
<td>7,100</td>
<td>Hilhaven Corp.</td>
<td>&quot;</td>
<td>12,203.49</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>2,000</td>
<td>Intel Corp.</td>
<td>&quot;</td>
<td>78,875.00</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>25,000</td>
<td>Maxus Energy Corp.</td>
<td>&quot;</td>
<td>270,200.00</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>15,000</td>
<td>Medco Containment Services, Inc.</td>
<td>&quot;</td>
<td>256,875.00</td>
<td>$</td>
<td>600.00</td>
</tr>
<tr>
<td>13,000</td>
<td>Mylan Labs, Inc.</td>
<td>&quot;</td>
<td>280,385.10</td>
<td>$</td>
<td>1,300.00</td>
</tr>
<tr>
<td>6,000</td>
<td>Newmont Mining Corp.</td>
<td>&quot;</td>
<td>321,872.40</td>
<td>$</td>
<td>3,600.00</td>
</tr>
<tr>
<td>12,900</td>
<td>Sun Microsystems, Inc.</td>
<td>&quot;</td>
<td>253,712.20</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>4,400</td>
<td>Tambrands, Inc.</td>
<td>&quot;</td>
<td>314,091.00</td>
<td>$</td>
<td>9,504.00</td>
</tr>
<tr>
<td>3,200</td>
<td>Disney (Walt) Co.</td>
<td>Siebel</td>
<td>35,575.20</td>
<td>$</td>
<td>1,536.00</td>
</tr>
<tr>
<td>4,500</td>
<td>Federal National Mortgage Association</td>
<td>&quot;</td>
<td>150,754.00</td>
<td>$</td>
<td>2,520.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Hilton Hotels Corp.</td>
<td>&quot;</td>
<td>289,200.00</td>
<td>$</td>
<td>5,000.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Holiday Corp.</td>
<td>&quot;</td>
<td>286,435.00</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>15,000</td>
<td>Novell, Inc.</td>
<td>&quot;</td>
<td>476,880.00</td>
<td>$</td>
<td>0.00</td>
</tr>
<tr>
<td>7,300</td>
<td>Primerica Corp.</td>
<td>&quot;</td>
<td>196,333.50</td>
<td>$</td>
<td>2,336.00</td>
</tr>
<tr>
<td>190</td>
<td>Banc One Corp.*</td>
<td>University Managed</td>
<td>5,854.38</td>
<td>$</td>
<td>197.60</td>
</tr>
<tr>
<td>17</td>
<td>Mobil Corp.*</td>
<td>&quot;</td>
<td>982.81</td>
<td>$</td>
<td>44.20</td>
</tr>
<tr>
<td>68</td>
<td>Southwest Bell Corp.*</td>
<td>&quot;</td>
<td>3,676.25</td>
<td>$</td>
<td>176.80</td>
</tr>
<tr>
<td>23</td>
<td>Worthington Industries, Inc.*</td>
<td>&quot;</td>
<td>564.94</td>
<td>$</td>
<td>12.88</td>
</tr>
</tbody>
</table>

* Gift

<table>
<thead>
<tr>
<th>Total Investment</th>
<th>Total Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,421,794.45</td>
<td>$57,079.48</td>
</tr>
</tbody>
</table>
### The Ohio State University
#### Common & Preferred Stock

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Average Price/Share</th>
<th>Total Amount</th>
<th>Gain/(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>Apple Computer, Inc.</td>
<td>Chicago</td>
<td>34.0000</td>
<td>$136,000.00</td>
<td>$(18,000.00)</td>
</tr>
<tr>
<td>12,400</td>
<td>Computer Associates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>International, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7,000</td>
<td>Olsten Corp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,600</td>
<td>PPG Industries, Inc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,700</td>
<td>Quaker Oats Co.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,400</td>
<td>Rite Aid Corp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11,000</td>
<td>Skyline Corp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,000</td>
<td>Snap-On Tools Corp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,000</td>
<td>Vulcan Materials Co.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6,200</td>
<td>Watkins Johnson Co.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6,200</td>
<td>Albertson's, Inc.</td>
<td>Nicholas-Applegate</td>
<td>50.5289</td>
<td>312,897.03</td>
<td>135,305.44</td>
</tr>
<tr>
<td>4,300</td>
<td>Bausch &amp; Lamb, Inc.</td>
<td></td>
<td></td>
<td>246,258.06</td>
<td>20,389.76</td>
</tr>
<tr>
<td>9,900</td>
<td>Comcast Corp.</td>
<td></td>
<td></td>
<td>136,483.90</td>
<td>(9,741.10)</td>
</tr>
<tr>
<td>3,500</td>
<td>Community Psychiatric Centers</td>
<td></td>
<td></td>
<td>91,308.44</td>
<td>7,107.11</td>
</tr>
<tr>
<td>2,100</td>
<td>Disney (Walt) Co.</td>
<td></td>
<td></td>
<td>215,658.80</td>
<td>78,711.12</td>
</tr>
<tr>
<td>2,600</td>
<td>Federal Home Loan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7,100</td>
<td>Mortgage Preferred</td>
<td></td>
<td></td>
<td>156,742.81</td>
<td>20,006.21</td>
</tr>
<tr>
<td>6,800</td>
<td>Hilhaven Corp.</td>
<td></td>
<td></td>
<td>9,478.17</td>
<td>(2,725.32)</td>
</tr>
<tr>
<td>7,300</td>
<td>Kemper Corp.</td>
<td></td>
<td></td>
<td>234,335.85</td>
<td>(33,346.15)</td>
</tr>
<tr>
<td>6,800</td>
<td>MCI Communications Corp.</td>
<td></td>
<td></td>
<td>257,571.01</td>
<td>149,118.52</td>
</tr>
<tr>
<td>500</td>
<td>General Motors Corp.*</td>
<td>University Managed</td>
<td>41.3750</td>
<td>20,654.81</td>
<td>(501.44)</td>
</tr>
<tr>
<td>1</td>
<td>NICOR, Inc.*</td>
<td></td>
<td></td>
<td>43.3764</td>
<td>1.03</td>
</tr>
</tbody>
</table>

* Gift

- $3,208,401.22
- $233,974.58
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Average Price</th>
<th>Total Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000</td>
<td>Federal National Mortgage Assoc. 8.950% 02-12-18</td>
<td>Boatmen's</td>
<td>8.9360</td>
<td>8.9347</td>
<td>100.1562</td>
<td>$1,001,562.50</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 8.500% 02-15-20</td>
<td>&quot;</td>
<td>8.4496</td>
<td>8.4444</td>
<td>100.5970</td>
<td>1,005,970.00</td>
</tr>
<tr>
<td>4,380,000</td>
<td>U.S. Treasury Bond (Stripped) 0.000% 11-15-16</td>
<td>&quot;</td>
<td>0.0000</td>
<td>8.2454</td>
<td>11.4980</td>
<td>503,612.40</td>
</tr>
<tr>
<td>3,600,000</td>
<td>U.S. Treasury Bond (Stripped) 0.000% 11-15-18</td>
<td>&quot;</td>
<td>0.0000</td>
<td>8.1360</td>
<td>10.0820</td>
<td>362,952.00</td>
</tr>
<tr>
<td>4,200,000</td>
<td>U.S. Treasury Bond (Stripped) 0.000% 05-15-17</td>
<td>&quot;</td>
<td>0.0000</td>
<td>8.2356</td>
<td>11.0710</td>
<td>464,982.00</td>
</tr>
<tr>
<td>930,000</td>
<td>U.S. Treasury Bond 8.125% 08-15-19</td>
<td>Cambridge</td>
<td>8.4898</td>
<td>8.5251</td>
<td>95.7031</td>
<td>890,039.06</td>
</tr>
<tr>
<td>1,000,000</td>
<td>First Union Bank Corp. 9.450% 06-15-99</td>
<td>STW</td>
<td>9.5684</td>
<td>9.6502</td>
<td>98.7630</td>
<td>987,630.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Resolution Funding Corp. 8.125% 10-15-19</td>
<td>&quot;</td>
<td>8.6724</td>
<td>8.7207</td>
<td>93.6875</td>
<td>936,875.00</td>
</tr>
<tr>
<td>1,300,000</td>
<td>U.S. Treasury Bond 10.750% 08-15-05</td>
<td>&quot;</td>
<td>9.1974</td>
<td>8.7423</td>
<td>116.8810</td>
<td>1,519,453.13</td>
</tr>
<tr>
<td>2,000,000</td>
<td>U.S. Treasury Bond 9.250% 02-15-16</td>
<td>&quot;</td>
<td>8.6247</td>
<td>8.5504</td>
<td>107.2500</td>
<td>2,145,000.00</td>
</tr>
</tbody>
</table>

$9,818,076.09
### The Ohio State University
**Bonds/Notes**

**Bonds**

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Average Price</th>
<th>Sale Price</th>
<th>Gain(Loss) On Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,650,000</td>
<td>U.S. Treasury Bond 7.250% 05-15-16</td>
<td>Boatmen's</td>
<td>86.6262</td>
<td>$2,295,593.75</td>
<td>$(62,244.12)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 8.500% 02-15-20</td>
<td>&quot;</td>
<td>101.5937</td>
<td>1,015,937.50</td>
<td>9,967.50</td>
</tr>
<tr>
<td>3,550,000</td>
<td>U.S. Treasury Bond 7.250% 05-15-16</td>
<td>STW</td>
<td>87.0412</td>
<td>3,089,960.94</td>
<td>$(174,827.02)</td>
</tr>
<tr>
<td>1,365,000</td>
<td>U.S. Treasury Note 8.875% 11-15-98</td>
<td>&quot;</td>
<td>102.9364</td>
<td>1,405,082.81</td>
<td>78,192.24</td>
</tr>
<tr>
<td>1,000,000</td>
<td>California State G.O. 6.750% 10-01-04</td>
<td>&quot;</td>
<td>99.0000</td>
<td>950,000.00</td>
<td>$(7,590.00)</td>
</tr>
</tbody>
</table>

$8,796,575.00 $(156,501.40)
### THE OHIO STATE UNIVERSITY ENDOWMENT FUND
#### REAL ESTATE INVESTMENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Yield</th>
<th>Acquired</th>
<th>Invested</th>
<th>Appraised Value</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and 3.295 acres at 930 Kinnear Road</td>
<td>7.97%</td>
<td>1962</td>
<td>$435,204</td>
<td>$1,550,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>3.74</td>
<td>1984</td>
<td>825,000</td>
<td>2,650,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>21.84</td>
<td>1961</td>
<td>659,930</td>
<td>1,250,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>17.36</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>8.81</td>
<td>1968</td>
<td>170,000</td>
<td>696,000</td>
<td>06/89</td>
</tr>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>0.55</td>
<td>1971</td>
<td>100,793</td>
<td>641,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>10.00</td>
<td>1978</td>
<td>70,150</td>
<td>70,150</td>
<td>N/A</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>00</td>
<td>1973</td>
<td>26,667</td>
<td>26,667</td>
<td>N/A</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>0.00</td>
<td>1986</td>
<td>190,000</td>
<td>283,000</td>
<td>06/89</td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>0.00</td>
<td>1962</td>
<td>160,265</td>
<td>2,896,000</td>
<td>06/89</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>0.00</td>
<td>1972</td>
<td>544,398</td>
<td>4,367,000</td>
<td>06/89</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>0.03</td>
<td>1968</td>
<td>310,538</td>
<td>6,853,000</td>
<td>06/89</td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>0.00</td>
<td>1971</td>
<td>265,079</td>
<td>2,749,000</td>
<td>06/89</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>0.19</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>06/89</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>0.00</td>
<td>1965</td>
<td>24,000</td>
<td>1,080,000</td>
<td>06/89</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>0.00</td>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road</td>
<td>2.94</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>20.988 acres of land on Shier-Rings Road</td>
<td>0.00</td>
<td>1978</td>
<td>241,848</td>
<td>1,155,000</td>
<td>08/89</td>
</tr>
<tr>
<td>17.92 acres of land on Eterman Road</td>
<td>0.00</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>8.08</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$11,327,758</strong></td>
<td><strong>$39,696,817</strong></td>
<td></td>
</tr>
</tbody>
</table>

(1) Amount represents balance on loan made to Department of Aviation.
MEMORANDUM

Subject: Proxy Solicitations
Date: February 28, 1990
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of February 1990, the University voted eight proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Approval of a restricted stock plan;
3) Ratification of an employee stock plan;
4) Adoption of amendments to a current stock plan;
5) Ratification of the independent auditors;
6) Amendment fixing the number of Directors;
7) Approval of a long-term incentive plan;
8) Amendment to the 1981 stock option plan;
9) Approval of an employee stock bonus plan.

The shareholder proposals were as follows:

1) Establish confidential voting and vote tabulation by an independent party;
2) Reinstate annual election of all directors.

The University voted for all Management proposals and against all shareholder proposals, which Management also opposed.

The eight corporations were:

1) Browning-Ferris Industries, Incorporated
2) Fluor Corporation
3) Helmerich and Payne, Incorporated
4) M/A-Com, Incorporated
5) Novell, Incorporated
6) Shoney's, Incorporated
7) Wm. Wrigley Jr. Company
8) The Valspar Corporation
APPENDIX LV

THE OHIO STATE UNIVERSITY CAMPAIGN PROGRESS REPORT

Presented to the Investments Committee and
Adopted by the Board of Trustees March 2, 1990
(See page 801)
THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-December
1988 compared to 1989

GIFT RECEIPTS BY DONOR TYPE

<table>
<thead>
<tr>
<th>Donors</th>
<th>July through December</th>
<th>% Change</th>
<th>Dollars</th>
<th>July through December</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>28,333</td>
<td>23,220</td>
<td>(18)</td>
<td>$9,027,638</td>
<td>$5,746,901</td>
</tr>
<tr>
<td>Non-Alumni</td>
<td>13,041</td>
<td>10,996</td>
<td>(16)</td>
<td>4,131,435</td>
<td>4,656,602</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,294</td>
<td>1,468</td>
<td>14</td>
<td>7,649,275</td>
<td>5,783,022</td>
</tr>
<tr>
<td>Corporate Foundations</td>
<td>195</td>
<td>204</td>
<td>5</td>
<td>1,349,723</td>
<td>1,119,506</td>
</tr>
<tr>
<td>Private Foundations</td>
<td>.115</td>
<td>119</td>
<td>4</td>
<td>3,248,429</td>
<td>2,264,048</td>
</tr>
<tr>
<td>Other</td>
<td>801</td>
<td>538</td>
<td>(33)</td>
<td>1,586,216</td>
<td>2,008,175</td>
</tr>
<tr>
<td>TOTAL</td>
<td>43,779</td>
<td>36,545</td>
<td>(15)</td>
<td>$26,992,716</td>
<td>$21,578,254</td>
</tr>
</tbody>
</table>
### The Ohio State University Campaign Progress Report

#### December 31, 1989

<table>
<thead>
<tr>
<th><em>Campaign Exectancies</em></th>
<th>Current Year Campaign Receipts (Jul 89-Dec 89)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1989</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>74,551,916</td>
<td>5,746,901</td>
<td>54,101,474</td>
<td>134,400,291</td>
<td>122,500,000</td>
</tr>
<tr>
<td>Friends</td>
<td>45,790,973</td>
<td>4,656,602</td>
<td>35,289,619</td>
<td>85,737,194</td>
<td>70,000,000</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>13,034,305</td>
<td>8,910,703</td>
<td>143,559,753</td>
<td>165,504,761</td>
<td>122,500,000</td>
</tr>
<tr>
<td>Foundations</td>
<td>2,728,625</td>
<td>2,264,048</td>
<td>25,891,857</td>
<td>30,884,530</td>
<td>35,000,000</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>136,105,819</td>
<td>21,578,254</td>
<td>258,842,703</td>
<td>416,526,776</td>
<td>350,000,000</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
APPENDIX LVI

REPORT ON THE SCHOOL OF NATURAL RESOURCES

Presented to the Agricultural Affairs Committee
(See page 816)
Pick up a newspaper, or tune into a television program and you are likely to read or hear about one or more of the following: global climate change, increased carbon dioxide concentration in the atmosphere, tropical deforestation, loss of biological diversity, use of pesticides, urban forestry, greenspace, (toxic) waste disposal, and the like. In the developing countries, you will hear about sustainable development, agroecosystems, agroforestry and social forestry (all denoting interconnectedness); concerns for food, fuel and fiber are paramount. At all levels—national, regional and global—the importance of environmental issues in general, and of natural resources in particular, has never been so profound as it is now.

Mitigating these problems will determine not only the economic stability of and harmony among nations, but human health and survival as well. To seek solutions, the tapestry of fundamental and applied sciences must be interwoven with the fabric of indigenous social and economic textures. Further, the success of technology transfer needs thoughtful and deliberate long-range policies, as does the imparting of knowledge in the most comprehensive way to both the young and not-so-young. This is the niche of the School of Natural Resources.

The School was formed in 1968. Its record and present aims have emphasized the wise use and management of natural resources through education, research and public service in several fields. These include Forest Resources, Fisheries Management, Wildlife Management, Parks-Recreation and Tourism Administration, Natural Resources Development, and Environmental Education and Communications. More recently, School programs have been developed in Aquaculture, Wetland Modelling, and Natural Resource Information Systems. Some 1989-90 vignettes: we taught 1700 undergraduate and graduate students; experienced a 24% enrollment increase in undergraduate majors; authored or edited many books, book chapters and journal articles; administered 57 continuing research grants and contracts totalling over $1.4 million, and submitted 37 new proposals totalling over $4.3 million. Also, three faculty members edited international journals and 10 served as editors or editorial board members of 13 additional major journals.

We have resolved to double our efforts to strengthen our programs and strive for excellence in both traditional and contemporary fields in natural resources/environmental sciences. Decisions on management of natural resources must be strongly grounded in a thorough understanding of ecosystem structure and function. We must underscore the diversity of social and economic systems as important components in decision-making and hence place strong emphasis on environmental policy. Thus, while maintaining the integrity of our historic mission, we continue to modernize our approaches with new research and contemporary tools. As we maintain our programmatic thrusts in Ohio and the region, we will also persist in our diverse efforts on the international scene, learning from and sharing knowledge and techniques with other countries in the world.

In recent years, the School has suffered some setbacks from loss of faculty critical mass in several traditional programs. We shall have to work diligently with the College of Agriculture and the University administration to overcome this loss as well as to achieve solidity as we prepare for the 21st century.
APPENDIX LVII

UNIVERSITY AIRPORT RENOVATION - 1990

Adopted by the Board of Trustees March 2, 1990
(See page 839)
APPENDIX LVIII

1960 KENNY ROAD RENOVATION
OXLEY HALL REHABILITATION

Adopted by the Board of Trustees March 2, 1990
(See page 840)
1960 KENNY ROAD RENOVATION

OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990
OXLEY HALL
REHABILITATION

OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990
APPENDIX LVIV

MORRILL TOWER AND LINCOLN TOWER RESIDENCE HALLS
UPGRADE TREATMENT - PHASE I
LIMA TECHNICAL COLLEGE - ENTRANCE ROAD
MAGNETIC RESONANCE IMAGING/MAGNETIC RESONANCE SPECTROSCOPY

Adopted by the Board of Trustees March 2, 1990
(See page 841)
March 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
LINCOLN/WORRELL TOWER DORMITORIES UPGRADE

Tabulation of Bids

Bids received by The Ohio State University on January 17, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Estimate</th>
<th>Martin Constr.</th>
<th>Functional Dev.</th>
<th>M &amp; P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$1,100,000.00</td>
<td>$648,500.00</td>
<td>$769,900.00</td>
<td>$973,890.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$1,100,000.00</td>
<td>$648,500.00</td>
<td>$769,900.00</td>
<td>$973,890.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract</th>
<th>Estimate</th>
<th>Progress Mech.</th>
<th>Radico</th>
<th>J. A. Myers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$40,000.00</td>
<td>$27,420.00</td>
<td>$37,600.00</td>
<td>$39,260.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$40,000.00</td>
<td>$27,420.00</td>
<td>$37,600.00</td>
<td>$39,260.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plumbing Contract (Continued)</th>
<th>J. A. Cronin</th>
<th>Farber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$43,334.00</td>
<td>$43,300.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$43,334.00</td>
<td>$43,300.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Eastmoor</th>
<th>Elco</th>
<th>Romanoff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$70,000.00</td>
<td>$57,050.00</td>
<td>$62,389.00</td>
<td>$76,995.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$70,000.00</td>
<td>$57,050.00</td>
<td>$62,389.00</td>
<td>$76,995.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract (Continued)</th>
<th>Jess Boyard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$78,400.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$78,400.00</td>
</tr>
</tbody>
</table>
MORRILL AND LINCOLN TOWER DORMITORIES UPGRADE TREATMENT

OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990
March 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

LIMA CAMPUS - ENTRANCE ROAD FROM STATE ROUTE 309

Tabulation of Bids

Bids received by State of Ohio, Division of Public Works on November 14, 1989. Bids opened by Elizabeth Foster and tabulated by Yvonne Tabor. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Fort Defiance</th>
<th>E. J. Meyer</th>
<th>Williams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$627,352.00</td>
<td>$441,431.25</td>
<td>$457,426.40</td>
<td>$500,631.85</td>
</tr>
<tr>
<td>Alt. G-1 (Additional Landscaping)</td>
<td>11,840.00</td>
<td>12,730.00</td>
<td>10,075.00</td>
<td>5,953.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$639,232.00</td>
<td>$454,161.25</td>
<td>$467,501.40</td>
<td>$506,184.85</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alt. G-2 (Entrance Signs)</td>
<td>$29,270.00</td>
<td>$10,000.00</td>
<td>$27,500.00</td>
<td>$25,000.00</td>
</tr>
</tbody>
</table>

General Contract (Cont.)

| Base Bid | $515,627.20 |
| Alt. G-1 (Additional Landscaping) | 9,634.16 |
| Total General Contract | $525,261.36 |
| Alternates not taken: | | |
| Alt. G-2 (Entrance Signs) | $31,000.00 |

Electric Contract

<table>
<thead>
<tr>
<th>Estimate</th>
<th>Joy Electric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$119,290.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$119,290.00</td>
</tr>
</tbody>
</table>
LIMA CAMPUS – ENTRANCE ROAD FROM STATE ROUTE 309

OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990
March 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
MAGNETIC RESONANCE IMAGING/MAGNETIC RESONANCE SPECTROSCOPY

Tabulation of Bids

Bids received by The Ohio State University on January 18, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "#".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Williamson *</th>
<th>Charge</th>
<th>Functional Dev.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$101,250.00</td>
<td>$109,500.00</td>
<td>$109,950.00</td>
<td>$114,995.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$101,250.00</td>
<td>$109,500.00</td>
<td>$109,950.00</td>
<td>$114,995.00</td>
</tr>
<tr>
<td>General Contract (Cont.)</td>
<td>Allen Bellev</td>
<td>Ed Rose</td>
<td>Page</td>
<td>Dublin</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$122,402.00</td>
<td>$124,800.00</td>
<td>$124,800.00</td>
<td>$128,598.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$122,402.00</td>
<td>$124,800.00</td>
<td>$124,800.00</td>
<td>$128,598.00</td>
</tr>
<tr>
<td>General Contract (Cont.)</td>
<td>M &amp; P</td>
<td>Charter Hill</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$129,700.00</td>
<td>$142,440.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$129,700.00</td>
<td>$142,440.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plumbing Contract</td>
<td>Estimate</td>
<td>Faber *</td>
<td>J. A. Guy</td>
<td>J. A. Croson</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$72,000.00</td>
<td>$49,600.00</td>
<td>$51,300.00</td>
<td>$56,879.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$72,000.00</td>
<td>$49,600.00</td>
<td>$51,300.00</td>
<td>$56,879.00</td>
</tr>
<tr>
<td>Plumbing Contract (Cont.)</td>
<td>Progress Mech.</td>
<td>Bruner</td>
<td>Holdridge</td>
<td>Radico</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$58,700.00</td>
<td>$58,800.00</td>
<td>$62,808.00</td>
<td>$69,300.00</td>
</tr>
<tr>
<td>Total Plumbing Contract</td>
<td>$58,700.00</td>
<td>$58,800.00</td>
<td>$62,808.00</td>
<td>$69,300.00</td>
</tr>
<tr>
<td>HVAC Contract</td>
<td>Estimate</td>
<td>J. A. Guy *</td>
<td>J. A. Croson</td>
<td>Faber</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$36,000.00</td>
<td>$25,900.00</td>
<td>$27,990.00</td>
<td>$29,400.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$36,000.00</td>
<td>$25,900.00</td>
<td>$27,990.00</td>
<td>$29,400.00</td>
</tr>
<tr>
<td>HVAC Contract (Cont.)</td>
<td>Bruner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$33,500.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$33,500.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric Contract</td>
<td>Estimate</td>
<td>Romanoff</td>
<td>Jess Bovard</td>
<td>Reca</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------</td>
<td>----------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$103,140.00</td>
<td>$79,400.00</td>
<td>$91,400.00</td>
<td>$96,974.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$103,140.00</td>
<td>$79,400.00</td>
<td>$91,400.00</td>
<td>$96,974.00</td>
</tr>
<tr>
<td>Electric Contract (Cont.)</td>
<td>Male-Carroll</td>
<td>Claypool</td>
<td>Goodin</td>
<td>Eastwoor</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$101,680.00</td>
<td>$102,000.00</td>
<td>$103,500.00</td>
<td>$103,654.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$101,680.00</td>
<td>$102,000.00</td>
<td>$103,500.00</td>
<td>$103,654.00</td>
</tr>
<tr>
<td>Electric Contract (Cont.)</td>
<td>Petter</td>
<td>States</td>
<td>Ciappett</td>
<td>Fush &amp; Rosen</td>
</tr>
<tr>
<td>Base Bid</td>
<td>$107,450.00</td>
<td>$108,000.00</td>
<td>$110,700.00</td>
<td>$149,656.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$107,450.00</td>
<td>$108,000.00</td>
<td>$110,700.00</td>
<td>$149,656.00</td>
</tr>
</tbody>
</table>
MAGNETIC RESONANCE IMAGING/MAGNETIC RESONANCE SPECTROSCOPY (MRI/MRS) RESEARCH FACILITY ADDITION TO WISEMAN HALL

OFFICE OF BUSINESS AND ADMINISTRATION
MARCH 2, 1990
The Board of Trustees met at its regular monthly meeting on Thursday, April 5 and Friday, April 6, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**       **       **

Minutes of the last meeting were approved.

**       **       **
The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on April 5, 1990, at 4:15 p.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

PRESIDENTIAL SEARCH COMMITTEE PROGRESS REPORT

Mr. Kessler:

Mr. Chairman, I am pleased to have this opportunity to report to you on the progress of the Presidential Search Committee and the activities it has engaged in since its inception. As you will recall, the Board established the membership for the Search Committee at its January 5, 1990, meeting and set in motion a process to select individual Committee members through existing governance and administrative structures at the University. The Committee held its first meeting on January 10, at which time a Criteria Subcommittee was appointed with the task of preparing a Criteria Statement which could be used in connection with advertising and for other purposes. The Subcommittee met several times on its own and presented recommendations to the full Committee during January. The Committee met on January 22 and January 29 to discuss a variety of matters including possible use of search firms and the Criteria Statement. The Criteria Statement was approved by the Board at its February 2, 1990 meeting.

The Committee met on the 6th, 14th, and 21st of February, during which time bids were received from search firms interested in assisting the Committee with the search process, which resulted in the selection of Heidrick and Struggles as the Committee’s consultant. Upon the selection of Heidrick and Struggles, ads incorporating the Criteria Statement language were placed in The Chronicle of Higher Education, Black Issues in Higher Education, Science, The Affirmative Action Register, The New York Times, The Columbus Dispatch, The Cleveland Plain Dealer, The Cincinnati Enquirer, and The Call and Post. The ads directed nominations to Heidrick and Struggles. On behalf of the Committee, I sent letters to the Presidents of all AAU, Division I and historically black colleges and universities to solicit their input in the nomination process. All information about the search indicated a deadline of April 2, 1990, for the submission of nominations.

The Committee met with Heidrick and Struggles on March 28 to review the nominations received to date and to discuss the timetable for the search. While the deadline for the receipt of nominations had not yet arrived, and while it is expected that some nominations and expressions of interest will be received and considered after April 2, there has already been a significant amount of interest expressed by way of nominations to Heidrick and Struggles. At the meeting, the Committee reviewed the list of candidates which at that time consisted of more than 140 names. As nominees are identified, Heidrick and Struggles makes contact with them to determine their interest in being considered for our position. Obviously, some of these individuals may not wish to be considered as candidates, but it is expected that many will stay in the process for some period of time, during which the Committee may more seriously consider their qualifications. The quality of the names on the list so far has been excellent. Many individuals are currently in significant positions at other educational institutions or at foundations or private corporations. The Committee has been impressed with both the quality and diversity of the list.
April 5 and 6, 1990 meeting, Board of Trustees

PRESIDENTIAL SEARCH COMMITTEE PROGRESS REPORT (contd)

Mr. Kessler: (contd)

Starting tomorrow, the Committee will read the files prepared by Heidrick and Struggles regarding each prospect on the list. To allow for an indepth review of the information, a Heidrick and Struggles employee will be present in Columbus with the files from tomorrow through April 13, and will return for additional reading days for the period of April 20 through April 28. It is expected that the list of viable prospects will be shortened as a result of these reviews and that a list of approximately twenty semi-finalists will be agreed upon by mid-May. Based on this expectation, it is likely that interviews could be conducted with prospects during June, with a recommendation of one or more names to the Board at its July meeting.

The Committee has functioned very well as a group and is committed to the hard work necessary in the days ahead to recommend the best possible prospect or prospects to the Board in July. We have enjoyed the full participation of all Committee members at each of the meetings, and we have made significant progress in our discussions of both the University’s current situation and some of the things that will be necessary for the next President to deal with in leading the institution in the years ahead. It is apparent that each Committee member has received input from people both on and off campus. We have received suggestions about the process this way and we have also passed along nominations from these resources. It is hoped that the University community and the citizens of Ohio will continue to share their thoughts about the Committee’s work as we focus more sharply on the nominees interested in Ohio State.

The Trustee members of the Committee, in particular, remain interested in your views, which we would welcome at any time. Having said that, I remain open for any questions or discussion that you would like to have at this time with respect to the conduct of the search. That completes our report, Mr. Chairman.

Amb. Wolf:

Yes, I would like to ask you if any of the west coast papers were used for advertising? I didn’t know if you had the L.A. Times in there.

Mr. Kessler:

No. We did not. We had national papers such as the New York Times and the Chronicle of Higher Education, and papers in all of the major cities in Ohio, but we did not use any west coast papers. One of the factors was the distribution of our list and the letters that we sent to all of the university presidents. We felt that we got geographic spread on a national basis using the papers we did, and we also consulted Heidrick and Struggles for their review and we felt that was adequate.

Mr. Teaford:

The list would indicate no lack of knowledge on the west coast.

Mr. Kessler:

We are getting interest from all parts of the country, including the west coast.
April 5 and 6, 1990 meeting, Board of Trustees

PRESIDENTIAL SEARCH COMMITTEE PROGRESS REPORT (contd)

Amb. Wolf:

Did you mention the Wall Street Journal?

Mr. Kessler:

We did not put it in the Wall Street Journal. I might add, we were not excluding these others because of cost; this process totaled $21,000. We felt that the New York Times and the Wall Street Journal would get similar readership -- I believe that was our reasoning. The Wall Street Journal was one of the most expensive to run our ad in, so we did consider it, but decided not to do it.

Amb. Wolf:

Is it too late to do something like that?

Mr. Kessler:

The lead time on it is. I don't know about the Wall Street Journal, probably you would have a shorter lead time than some of the others like the Chronicle. I could check on it. I'm afraid with the process we have outlined -- although we will consider nominations at anytime -- we put in a April 2 deadline because we are on a tight time table, but we could certainly consider it if that would be your wish.

Amb. Wolf:

It is a suggestion. Because this is such an important search, a nationally distributed paper such as the Wall Street Journal, which has a wider circulation than the New York Times, would be a good paper to advertise in, and it would get coverage on the west coast. I would suggest that.

Mr. Kessler:

All right, I will talk to Bill Bowen and our Trustee committee members and, depending on their reaction, I will call Bill Bowen tomorrow and see what we can do. Thank you.

Mr. Berry:

I would think that -- how many college presidents did you write to?

Mr. Kessler:

Three hundred.

Mr. Berry:

And of that 300, I don't know how many were on the west coast, but a fair percentage would be. I would think that probably every present educator in the country knows that Ohio State is looking for a new president.
Amb. Wolf:

Mr. Chairman, you asked for suggestions and I am just telling you.

Mr. Berry:

I'm not down playing your suggestion at all, Milt.

Mr. Kessler:

We want input from our Board. Both Joel and Alex, who are on the committee are here with me, and I would encourage them to speak up also. We have a very good, hardworking committee and, as you can see, we have met many times and our attendance is always 100 percent.

Ms. Casto:

I understand the tremendous amount of time it takes and I would like to personally thank you for your hard work.

Mr. Kessler:

It has been fun so far, but the real work is just beginning. The people from the University -- faculty, students, the dean, and the alumni representative -- all believe that it is a very important job. They are all taking it very seriously. I'm real pleased with it.

Mr. Berry:

Well, it is a very important step for the University, we all know that. All the Trustees and other people connected with the University appreciate your leadership, Jack, and all the members of the committee for what you are doing.

The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

The Chairman, Mr. Berry, reconvened the meeting of the Board of Trustees on April 6, 1990, at 11:35 a.m. He requested the Secretary to call the roll.

Mr. Berry announced the appointment of the following persons to the Nominating Committee for the selection of Board Officers for 1990-91:

Hamilton J. Teaford, Chairman
John J. Barone
Deborah E. Casto

CAPITAL PROJECTS

Mr. Weldon Ihrig:

The General Assembly has acted and we have our Capital Appropriations for the next biennium starting July 1 of this year. The sheets before you give you two columns [please refer to Appendix LX for charts]: the first one showing our requests, in priority order, that we submitted to the Board of Regents. That total is under New Requested Appropriations -- $158 million, and out of that we were given appropriations of $65.3 million. That shows how our recommended priorities were followed. The basic renovations for the Columbus campus and the other campuses are basically to maintain the status of the plant and the infrastructure. Now that has to be put into context, because what those add up to must be compared to a total replacement value of over $3.5 billion. We should be expending around $60 million a year -- if we add 2 percent to replace -- to keep the plant maintained in the condition we originally had the buildings. So we still have a ways to go even with these amounts of monies.

In addition, the projects that we have are renovations of campus facilities. You will notice down the list that the first large project is the Brown Hall Annex replacement and that was funded at around $15 million in a prior Capital Bill. Because of the site being right in the heart of the campus, the project is really going to cost $25 million. So we had requested, as a top priority, the additional $10 million for that project. We were funded at $7 million, primarily because the University had agreed to put $2.5 million into the project originally to buy some expansion space. The Regents kept us to that requirement, but the design took away the expansion space, so we are paying $3 million for something we didn't obtain. That is a fiscal officer's approach to it.

The Equine Center is an expanded research and educational facility in the Veterinary College. That shows the State support for that, and donated funds are bringing in another $1.5 million plus towards that project.

The Dreese Lab addition is the tall building where Electrical Engineering is housed, just south of the northwest parking ramp. That building was originally designed to have a duplicate extension to it. So the infrastructure is already there, regarding the vertical circulation space in the original building and we can add on to it. That will be housing space for Computer and Information Science and Electrical Engineering. This is one of those buildings where both of those fields deal in high technology. As we get into the actual requirements and designs for technology in that building, we will determine the amount of real square footage that we get out of it. Some of the clean labs dealing with computer chip development require extensive air exchanges, and we have seen some very high cost items in that area.
The Mendenhall Renovation is the first phase of that project. The $13 million requested was for the total project. This is one where the institution went ahead and started planning the building two years ago. The design of it allowed this building to be done in two phases because part of it was renovation. It is the building right on the Oval, between Hagerty and Orton Halls that houses Geology and Mineralogy. That building is just out of date, technology-wise, for the faculty and students. The design calls for an addition on the back and then renovation when we move the people out of the building into the addition. Phase two will be the finish and the renovation of the building. So, the next biennium we will be bringing back the other phase as a top priority. By then, it will probably be $4 million, due to inflationary costs.

You can see that the Regents, and the General Assembly in its final wisdom, did not give any funding for the next three projects. Then funded $7 million for the Law Building addition which is being matched with $1.5 million from the current biennium, and then $8.5 million from fundraising by the College of Law. So that essentially will be a $17 million building with half from fundraising and the other half from State support.

Next you will see below the line we have Requested Transfers. We had the Hagerty Hall project that we decided not to proceed with at this time because we are looking at fundraising for a new facility. Those funds were reallocated to a top priority which was Greenhouse Modernization. That was next on our priority list and that was officially done as a part of the action by the General Assembly.

Mr. Teaford:

That doesn't refer to the AmeriFlora Greenhouse, that is something separate?

Mr. Ihrig:

Right. These are greenhouses for B & Z in the College of Biological Sciences, just west of the B & Z building, behind the Dentistry building.

As it came through the legislative process, there are the other appropriations. You will see $23 million of other items added to Ohio State’s list of appropriations. There is the furniture and technical/laboratory equipment for the Pike County Extension Center facility; there is money to expand the Ohio Education Broadcast building on North Star Road; there is $13 million for the Pediatrics Education Facility at Children’s Hospital, and, by the way, the active faculty at Ohio State are housed physically at Children’s Hospital. So we have a direct tie in on that one. Thurber Center for the Literary Arts for a half million dollars. The renovation of the Cranston Facility on Neil Avenue -- the last capital bill provided the money to purchase it and just do basic infrastructure upgrades. This is for finishing and renovation costs of that facility.
April 5 and 6, 1990 meeting, Board of Trustees

CAPITAL PROJECTS (contd)

Mr. Teaford:

And that is for the Mershon Center.

Mr. Ihrig:

Mershon Center, correct, not Mershon Auditorium. The Franklin Conservatory Improvements is $7.2 million for the AmeriFlora, out of this capital bill. Then there is the Poultry Research Facility at OARDC and a Horse and Farm Management Facility at ATI. The latter one is planning money only. That is a total cost of about $2.6 million. Those were on our list for the second biennium and they were moved up in the legislative process to the first biennium. So that is the total list of direct appropriations to and through Ohio State University over the next two years for capital expenditures.

Mrs. Bowser:

Weldon, is it a normal rule that they jump over your priorities and pick something from the bottom and move it up? Is that normal?

Mr. Ihrig:

You mean such as Law, or further down?

Mrs. Bowser:

Law -- they have jumped over all of these others.

Mr. Ihrig:

Yes. Our arguments are always that our priorities are thought out on campus and those are what we are trying to adhere to. But there are instances where this happens, yes.

Mrs. Bowser:

But is this normal to have this many bypassed?

Mr. Ihrig:

When we went back and looked, this is the most.

Mrs. Bowser:

They have jumped over every lab and library.
Mr. Teaford:

If you notice the library is gone now.

Mr. Ihrig:

No. The third page gives our total priority list for the three bienniums. You will see where the library fits in. We originally requested planning money in the second biennium. It is about midway down the page. The left side of the page gives you a list of all of our projects for state funding and then it shows which biennium it was requested for. You will see that the library, for $3 million, is in the 1993-94 biennium.

Mr. Teaford:

The last time, I seem to remember, it was in for $50 million.

Mr. Ihrig:

If you look at the third biennium, the far right column, you will see the $82.7 million for actual construction of it in today's dollar.

President Jennings:

A couple of things happened this time around. This is abnormal in the sense -- not so much in the number of items, but in the amount of money -- because of two large items namely the Pediatrics Center at Children's Hospital and the Franklin Park Conservatory. Two things about that: our Pediatrics Department is Children's Hospital, so this is not something that we would be opposed to. But I will add that I am not distressed that this funding has come, but I am a bit distressed that the Board of Regents recommended a portion of this to the General Assembly and then the General Assembly added on to that. I would hope that we would be able to work more closely with the Board of Regents in the future in the context of their recommendations. The Legislature, in their wisdom, certainly should jump around on our priorities.

The Franklin Park Conservatory, of course, is associated with AmeriFlora. One of the difficulties in this State is that all of these projects will be bonded with state bonding. The higher education authority in this State makes it easiest to bond for projects through the higher education budgets. So you are going to find that frequently projects that are essentially community put through the higher education budget. There is a piece of AmeriFlora project in the higher education as you heard this morning, but this State does have a tendency to put community projects into higher education budgets. The Plain Dealer, for example, has been after us and after this budget because there is AmeriFlora in this. The Plain Dealer should be careful how they talk about that because many Cleveland projects have been put through the higher education budget -- namely their arena facility, and that is fairly normal. We would be generally opposed to that and I wish the State could work out a different method and confine this to higher education, but in its wisdom it has not.
April 5 and 6, 1990 meeting, Board of Trustees

CAPITAL PROJECTS (contd)

Amb. Wolf:

I just want to clarify a point here. On the second page there is $92.4 million. Is that the figure that was recommended for this biennium by the Board of Regents for Ohio State?

Mr. Ihrig:

No. The figures on the second page are additional appropriations that are sub-allocated by the Board of Regents. That has nothing to do with the first page.

Amb. Wolf:

I am trying to find out what the Board of Regents recommended for this biennium.

Mr. Ihrig:

David, do you remember? David Marsh is the Associate Vice President for Campus Planning.

Mr. Teaford:

One thing it did not include was the Law School.

Mr. Ihrig:

It did not include the Law School, correct. And the other appropriations it only included Pediatrics -- $6 of the $13 million.

Mr. Marsh:

$68,340,000 is what the Regents recommended.

Mr. Ihrig:

$68.3 million.

Amb. Wolf:

And the Legislature increased it to $92 million?

Mr. Ihrig:

Correct.

Amb. Wolf:

I see.

Mr. Teaford:

But almost entirely in things that were not really ours.
April 5 and 6, 1990 meeting, Board of Trustees

CAPITAL PROJECTS (contd)

Ms. Casto:

Not our priorities?

Mr. Teaford:

No, not really ours.

Amb. Wolf:

Well, when they increase it, like the bottom group -- $23 million -- they increased them without any priority on our part?

Mr. Ihrig:

That's correct.

Amb. Wolf:

How do they initiate that increase?

Mr. Ihrig:

I will let Professor Asher answer your question.

Dr. Asher:

It has always been a tradition in the General Assembly -- and members of the General Assembly feel that they have a prerogative, and they certainly do -- to support favorite projects that are either in their districts or have certain constituency support. And in some cases these are projects that are perhaps on our list, but are not as high on the list, so they would not be recommended by the Board of Regents. In other cases, they are projects that are not on our lists, but are either important to the community or important to a particular interest or whatever.

Some of the major add-ons here by the General Assembly -- they added another $5 million for the Children's Hospital, above the $8 million recommended by the Board of Regents. That is an add-on there. There is also, I think here, a net addition in the General Assembly of $3 million for the Law School -- a net addition, $7 million all together. And then, I think, you see some other projects here -- the Pike County Agricultural -- that is certainly an ongoing activity. And without mentioning who is from Pike County, you can understand that it is an important project. The renovation of the Cranston Facility is in the Campus area and is an important project for the University, but it wasn't as high on our priority list, but indeed had sponsorship of local state legislators. So it is an ongoing project.

What I would like to emphasize is that what was different about this process, and I think goes back to Shirley's question, is that there has been a history and tradition of legislators adding projects. What was different this time was the Board of Regents, themselves, made some additions. And in the context of our budget, the major addition was the $8 million recommended by the Board of Regents for Children's Hospital, given that that was not on our priority list, although it is certainly a very meritorious project.
CAPITAL PROJECTS (contd)

Amb. Wolf:

Thank you.

Mr. Ihrig:

On the second page are additional capital projects that are attached to the Board of Regents -- it happens to be $92 million, so the two numbers happen to be equivalent. These are projects that the Board of Regents take and distribute around the State to the various universities based upon the rules that they have set up. The first is educational TV/Radio equipment and WOSU will compete for some of those funds to upgrade their equipment, as well as other educational broadcasting operations around the State.

The second one is the Asbestos Abatement. Again, based upon a formula and the needs of the institution, we will each compete for that. Our estimate is Ohio State will get somewhere around $800,000 - 900,000 allocated to us.

Instructional and data processing equipment is an equipment replacement fund for instructional equipment and we expect to get between $9-10 million of that allocated here. It is based on our equipment inventory and the age of our equipment.

The Ohio Library Information System is a new state-wide computerized network that the Board of Regents are supporting with the support of the various institutional libraries to tie them all together.

The Supercomputer is the Ohio Supercomputer Center and they are getting an additional $2 million for memory storage enhancement.

The Ohio Aerospace Institute is initiated state-wide by the Regents to work with the Aerospace Center of NASA and the universities around the State, including Ohio State, in developing an aerospace program in Cleveland at the NASA Center. That is a building, I believe.

The Research Facility Investment is new for us this time. There are two $10 million components to this. One is a non-interest loan for building research-type facilities; and the second is $10 million in matching funds from external funds from the State to match with State funds to provide research facilities. This is the first time the Regents has moved from instructional into research-type facilities. And we will compete for those and our top priority is additional expansion to the Biotech Center.

Mr. Teaford:

Do you have any sense of what we are likely to get out of that?

Mr. Ihrig:

Well, the problem with this one is that is big money, but they said the maximum award on any program is $3 million. So it is to be dispersed widely, rather than on major projects. Hopefully we can be creative and get $3 million out of each pot.
April 5 and 6, 1990 meeting, Board of Trustees

CAPITAL PROJECTS (contd)

President Jennings:

The Regents have said that; that is not a State rule.

Mr. Ihrig:

The Regents have stated that in their policies.

Mr. Teaford:

But we don't expect that we will get anywhere near our -- if we were to take the share of research done by Ohio State compared to the rest, we are not likely to get anywhere near that.

Mr. Ihrig:

I would guess not.

President Jennings:

This is like the $20 million appropriated by Congress in Washington. It is such a small amount, but it even gets worse when its limit is to $3 million awards. Because $3 million is an awful lot of money, but it doesn't build much in the way of research facilities.

Mr. Ihrig:

Unless there are other questions, that completes my summary of the Capital Plans.

Mr. Berry:

Any other questions?

Mr. Shumate:

Mr. Chairman, just a comment. I think we should note that the University was well represented during this Capital Budget process before the General Assembly, by Dr. Asher. He did an outstanding job on behalf of The Ohio State University.

President Jennings:

We appreciate that, Alex.

Mr. Kessler:

The President didn't do a bad job, either!

(See Appendix LX for charts on The Ohio State University Capital Plan, page 948.)

--0--
April 5 and 6, 1990 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT

Mr. Barone:

Research Foundation grants and contracts for the month of February 1990 are shown in the Board Agenda Book. There are 85 awards listed which provide a gross income of $4.6 million.

Funding for the first eight months of the fiscal year is 7 percent behind that of last fiscal year. Only in the "State of Ohio" and "Other Non-Federal" sponsor sectors is funding running ahead of last year.

Some highlights of awards are:

$533,000 from Blue Cross/Blue Shield for a study of health care cost increases in Ohio.

$121,000 from the National Eye Institute to study how genes activate cell production in the eye.

$15,000 from the American Cancer Society to determine if depression affects the ability to stop smoking.

Thank you. That concludes my report. Dr. Tom Sweeney is available to answer any specific questions you may have.

Mr. Teaford:

Dr. Sweeney, do you assume that the reduction in our amount of federal grants is simply due to the reduced number of federal grants available, or are we getting a lesser share?

Dr. Sweeney:

I think we are still getting our share. What is happening is that, for example, the NSF put through a retroactive reduction in all of the grants that were made this fiscal year. NIH is cutting grants -- even continuation grants 10 plus percent. So what we are seeing, really, is caution on the part of the federal agencies. I can report to the Board that the indications are that this 7 percent will be mostly or perhaps all erased by the end of the year. I think this is going to be a flat year. I don't think we are going to have a serious decline, but we are not going to experience the growth that we have had in the past few years. This is a year of treading water.

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its standing committees met on Thursday, March 15.

Preliminary financial reports reveal that February admissions exceeded budget. The average daily census increased from January's levels. Both Medicare and Medicaid case mix indexes, which relates to the severity of illness, were above budget for the
HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

Month and the year-to-date. Net income for the month was $91,000 versus a budgeted loss of $286,000. Though the Hospitals still remain some $900,000 below budget for the year. We believe we are making progress toward pulling the Hospitals back closer to this year's budget projections. The total impact of the University's Early Retirement program remains unclear.

We reviewed and approved the structure of Hospital and Medical Staff committees. We endorsed new appointments to the medical staff, as well as three physician extenders. And you will note that those are on this month's personnel agenda. Physician extenders are highly educated individuals who will, I think, be part of the way in which we improve the problem created by the nursing shortage, as well as providing, frankly, even more outstanding medical care to our patients.

We approved formats for reports of key indicators of quality and operational issues. These formats will present the information in such a way that it can be easily understood and compared with past performance and/or other institutions. I might say that Charles Lazarus has, over the last few years, pushed us toward being able to fulfill our role of quality review in the Hospitals. And I think we now, as a result of these approved formats, have the ability to keep track of the quality of the Hospitals, which I might say remains extraordinarily high.

We also had a lively discussion about the need for overnight housing in close proximity to the Hospitals, for use by our patients and their families. The determination by the firm that we hired to make a study of this subject was that the need is not there from a financial point of view. Motels in the area, including one with which we are very familiar, have lots of capacity still and it is not likely that if we were to build one closer to the Hospitals, it could be financially viable.

Mr. Kessler:

Plus, Joel, all of the hotels have vans that are trying to do business with the Hospitals. They will bring the people right up to the Hospitals.

Mr. Teaford:

Indeed, that is true. And, in fact, we talked about working out a better system of transportation, particularly from the Ramada, to the Hospitals as a far more financially viable approach to this whole question.

Ms. Judy Gilliam gave an in-depth report on a number of initiatives to develop, recruit, and retain nursing professionals. I think we are turning the corner on the nursing problem. And I might say that Judy Gilliam is one of the reasons that we are. I think that she has really worked very, very well with everyone to improve that program.

Mr. Barone:

I might add that I hope that is true. I noticed in my travels to Kentucky that they are actually using billboards to recruit nurses.
April 5 and 6, 1990 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford:

Mr. Landen Bain reviewed the evolution of the Hospitals' Information Services Program and outlined a plan for increasing computing power, expanding user access, and modifying the existing computer facility. The existing computer facility is truly, following an evolutionary process, now be at an end because it is so inadequate and, indeed, intriguingly enough is not really compatible with the University's computing system. This plan will allow future growth in both business and clinical computing functions; expansion of user access, including internal and off-site users; and upgrading the existing facility with replacement of air cooling and humidity control equipment, the addition of water cooling equipment, and installation of an uninterruptible power supply.

We had a very fascinating report by Dr. Mitchell Henry on the pancreas transplant program at University Hospitals. And, Mr. Berry, I might point out to you that 16 percent of all pancreas transplants in the United States are done at The Ohio State University Hospitals, and 8 percent of all pancreas transplants in the world are done at Ohio State University Hospitals.

Finally, after several months' review and refinement, we approved revisions to the Hospitals Board Bylaws which are before us today. These revisions are intended to formalize the new committee structure which the Board is already following, and to clarify the responsibilities of the Hospitals' Executive Director and Medical Director.

That completes my report, Mr. Chairman.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as presented by Mr. Nichols. The value of the endowment as of March 16, 1990, was reported as $304.3 million. The new formats discussed at last month's meeting were used for the first time this month and were well received.

Mr. Nichols also presented a report on non-endowment investment performance which showed investment returns for all non-endowment portfolios. In the future this report will be presented quarterly.

Finally, the Committee heard a report comparing the performance of Ohio State's endowment with that of other universities with similar funds. Ohio State's investment performance has regularly exceeded the performance of these other groups over a period of ten years.

This completes the report of the Investments Committee.

(See Appendix LXI for complete text of The Ohio State University Endowment Summary, March 16, 1990, page 953.)

--0--
ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

In response to Senate Bill 140, The Ohio State University Academy has been created. It is designed to provide postsecondary enrollment options for appropriately qualified high school students in their junior and senior years. The Academy offers these students the opportunity to enroll at the University on a full-time or part-time basis and to complete college-level coursework for college credit. This coursework may also, if approved by the student's high school, apply toward high school graduation. The intent of the Academy programs is to offer a broad menu of college-level courses which provide educational opportunities not typically available in the high school. To ensure that the educational and developmental needs of the students are met, a partnership of responsibility is being created among the local school districts, the students' parents or legal guardians, and the University.

In November 1989, the Chancellor of the Ohio Board of Regents charged the Commission on Articulation and Transfer with developing a policy framework for a statewide transfer and articulation process that would encourage students to progress as far through the educational system as they can. The Commission has recently drafted a policy statement to facilitate the transfer of students and credits from one college or university to another. The policy encourages students to complete degree programs, especially the Associate of Arts and the Associate of Science degrees. It encourages faculty recognition of comparable and compatible learning experiences and expectations in the first two years of a student's collegiate education. Finally, the policy outlines a process which will ensure implementation and continual review of the Transfer and Articulation Policy. The draft policy is currently under review within the University and has been submitted to the Council on Academic Affairs and the Committee on Admission and Registration, both standing committees of the University Senate.

These were both House Bills -- House Bill 140 and House Bill 111. And, of course, we are very interested in it because it could make a huge difference academically to our smaller schools.

Mr. Teaford:

One of the things that the President pointed out in our meeting, too, is that this articulation question really needs to be watched carefully. As he said, it quite frankly threatens the authority of this Board to control the academic quality of the institution. And we really need to watch that. We were given the impression that the University is indeed nervous about this whole process, because it seems to be driven from the point of view of the two-year institutions, as opposed to being driven from the point of view of the four-year institutions. This has the real potential, of course, to negatively impact the quality of this University.

President Jennings:

Well said.

Ms. Casto:

The Committee is also recommending the following resolutions:
April 5 and 6, 1990 meeting, Board of Trustees

RENAMEING OF DIVISION Resolution No. 90-96

Synopsis: The Academic Affairs Committee recommended the approval to rename the Division of Agricultural Mechanics Technologies to the Division of Engineering Technologies at the Agricultural Technical Institute.

WHEREAS the proposed name change of the Division of Agricultural Mechanics Technologies to the Division of Engineering Technologies at the Agricultural Technical Institute has been approved by the faculty of the Agricultural Technical Institute, by the College of Agriculture, and by the Council on Academic Affairs; and

WHEREAS the proposed name would enhance the Division's efforts at upgrading and modernizing its programs and course work; and

WHEREAS the proposed name brings the Agricultural Technical Institute in line with comparable technical institutions; and

WHEREAS the University Senate approved the renaming of the Division of Agricultural Mechanics Technologies on March 3, 1990:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the Division of Agricultural Mechanics Technologies to the Division of Engineering Technologies, effective July 1, 1990, is hereby approved.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

RENAMEING OF DEPARTMENT Resolution No. 90-97

Synopsis: The Academic Affairs Committee recommended the approval to rename the Department of Botany to the Department of Plant Biology.

WHEREAS the proposed name change of the Department of Botany to the Department of Plant Biology has been approved by the faculty in the Department, by the College of Biological Sciences, and by the Council on Academic Affairs; and

WHEREAS on the national level the discipline has expanded beyond traditional concepts so that the name Plant Biology more accurately reflects the orientation of the Department; and

WHEREAS the name change would better enable the Department to attract highly qualified faculty members and students; and

WHEREAS the University Senate approved the renaming of the Department of Botany to on March 3, 1990.
April 5 and 6, 1990 meeting, Board of Trustees

RENNAMING OF DEPARTMENT (contd)

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the Department of Botany to the Department of Plant Biology, effective July 1, 1990, is hereby approved.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

AMENDMENTS TO THE UNIVERSITY HOSPITALS BOARD BYLAWS
Resolution No. 90-98


WHEREAS pursuant to 3335-103-01 of the University Hospitals Board Bylaws, the University Hospitals Board Bylaws may be amended by The Ohio State University Board of Trustees; and

WHEREAS the proposed new bylaw (3335-93-10), and amendments to bylaws 3335-97-01, 3335-97-02, 3335-97-03, 3335-97-04, 3335-97-05, 3335-101-03, 3335-101-06, 3335-101-07, and the rescission of bylaw 3335-97-06 of the University Hospitals Board Bylaws has been endorsed and ratified by the University Hospitals Board on March 15, 1990, as follows:

NEW BYLAW

3335-93-10 Responsibilities of executive director of university hospitals.

The executive director shall have authority as conferred by the vice president for health services and the hospitals board. The executive director shall be responsible for the operation of university hospitals and shall serve as the chief executive and operating officer. The executive director will coordinate and prioritize matters of capital medical equipment, clinical space, and clinical programs with the medical director.

AMENDED BYLAWS

3335-97-01 Committee designations.

The board shall establish an executive committee, a strategic planning committee, an administrative/operations committee, a professional affairs/education/research committee, and special purpose committees. The chairperson of the board shall appoint the board's representatives to the committees; the president of the university may designate any officer of the university to attend meetings of the committees as ex-officio members without vote. The vice president for health services, the dean of the college of medicine, and the medical director, may attend meetings as ex-officio members without vote. As non-voting secretary of the board, the hospitals executive director shall attend all meetings and act as secretary.
AMENDMENTS OF THE UNIVERSITY HOSPITALS BOARD BYLAWS (contd)

3335-97-02 Executive committee.

(A) Responsibilities. The executive committee shall be responsible for the following specific duties:

1. Establishing policy and direction as appropriate.

2. Transacting such business of the board between regular meetings of the board as the board may hereafter authorize.

3. Coordinate the board's education and self-evaluation activities, and interaction with the Ohio state university board of trustees.

4. Coordinate board activities and committee representation.

(B) Composition. The executive committee of the board shall consist of: the chairperson of the board, who will serve as chairperson of the committee; the vice chairperson of the board; the immediate past chairperson of the board; the president of the university; and the chairpersons of all standing committees of the board, and the two trustee members of the board. The vice president for health services, or other officer designated by the president of the university, and the dean of the college of medicine, the medical director, the hospitals executive director, the chief of the medical staff, and the chief of staff elect, shall serve as ex-officio members without vote.

(C) Meetings. The executive committee shall meet at the call of the chairperson and shall advise the board of its activities.

3335-97-03 Strategic planning committee.

(A) Responsibilities. The strategic planning committee shall be responsible for the following specific duties:

1. Developing, implementing and monitoring the impact of strategic plan.

2. Recommending/evaluating new programs, program elimination, or program alteration.

3. Updating the combined strategic plan of hospital and college of medicine with appropriate consideration of other health-related colleges and including monitoring external factors effecting all of the preceding.

4. Monitoring strategic plan integration to plans of the university.

5. Such other responsibilities as assigned by the chairperson of the board.

(B) Composition. The committee shall consist of four board members, appointed annually by the chairperson of the board, one of whom shall be appointed as chairperson of the committee; and the two members of the medical staff nominated by the medical staff.

(C) Meetings. The strategic planning committee shall meet at the call of the chairperson and shall advise the board of its activities.
AMENDMENTS OF THE UNIVERSITY HOSPITALS BOARD BYLAWS (contd)

3335-97-04 Administrative/operations committee.

(A) Responsibilities. The administrative/operations committee shall be responsible for the following specific duties:

1. Development and maintenance of three year financial plan with continuous monitoring of the plan.

2. Reviewing human resources actions including management and professional development, compliance with EEO guidelines, wage and salary administration and productivity.


4. Evaluating information systems development.

5. Monitoring development programs.

6. Monitoring capital and facilities programs.

7. Monitoring operational goals and performance.

8. Reviewing internal and external audit functions.

9. Such other responsibilities as assigned by the chairperson of the board.

(B) Composition. The committee shall consist of four board members, appointed annually by the chairperson of the board, one of whom shall be appointed as chairperson of the committee; and two members of the medical staff nominated by the medical staff.

(C) Meetings. The administrative/operations committee shall meet at the call of the chairperson and shall advise the board of its activities.

3335-97-05 Professional affairs/education/research committee.

(A) Responsibilities. The professional affairs/education/research committee shall be responsible for the following specific duties:

1. Monitoring all patient care activity in university owned or operated facilities including the hospitals, clinics, ambulatory care facilities, and physicians office facilities.


3. Monitoring medical and other educational activity and relationship to hospitals.


5. Monitoring the evaluation of credentials and privileges requests of physicians and other applicants.

6. Reviewing accreditation and licensure agency requirements and response to such.
AMENDMENTS OF THE UNIVERSITY HOSPITALS BOARD BYLAWS (contd)

(7) Reviewing of medical staff bylaws changes.

(8) Such other responsibilities as assigned by the chairperson of the board.

(B) Composition. The committee shall consist of four board members, appointed annually by the chairperson of the board, one of whom shall be appointed as chairperson of the committee; and the medical director, the chief of the medical staff and the chief of staff-elect.

(C) Meetings. The professional affairs/education/research committee shall meet at the call of the chairperson and shall advise the board of its activities.

3335-97-06 TO BE RESCINDED.

3335-101-03 Medical staff organization.

The board shall approve and authorize the organization of the medical staff to discharge those duties and responsibilities assigned to it by the board and specifically to accomplish the following purposes, among others:

(A) To monitor the quality of medical care in the hospital and make recommendations to the board to ensure that all patients--admitted to or treated at any of the facilities, departments, or services of the hospitals--receive high quality medical care.

(B) To recommend to the professional affairs/education/research committee of the board the appointment or reappointment of an applicant to the medical staff of the hospitals, the clinical privileges such applicant shall enjoy in the hospitals, and appropriate action that may be necessary in connection with any member of the medical staff.

(C) To represent the medical staff of the hospitals and to provide the means whereby issues concerning the medical staff and the hospitals are discussed within the medical staff organization and among representatives of the medical staff, the hospitals board, and the hospitals administration.

(D) To establish specific rules and regulations governing actions of members of the medical staff.

3335-101-06 Medical staff administrative committee.

(A) Purpose. The medical staff administrative committee shall establish and maintain means of accountability to the board, in accordance with the medical staff bylaws. It shall concern itself primarily with the quality of medical care within the hospitals. It shall receive and act upon all medical staff committee reports and make recommendations regarding medical staff status and privileges to the board. Other specific duties of the medical staff administrative committee are identified in the medical staff bylaws.

(B) Composition. The medical board of the medical staff shall be known as the medical staff administrative committee which shall be composed of the chief of staff, the chief of staff-elect, the chiefs of clinical departments, three at-large members elected by the medical staff, the medical director, and the executive director of hospitals. The medical director, shall serve as chairperson of the medical staff administrative committee.
AMENDMENTS OF THE UNIVERSITY HOSPITALS BOARD BYLAWS (contd)

(C) Meetings. The medical staff administrative committee shall meet monthly. Minutes of the meetings shall be provided to all members of the professional affairs/education/research committee, the dean of the college of medicine, the dean of the college of dentistry, and the deans of other professional colleges whose faculty have appointment on the medical and dental staffs.

3335-101-07 Hospital clinical departments.

(A) Appointment of the chief of each clinical department is subject to approval by the board on the recommendation of the dean of the applicable professional school and the vice president for health services. All such appointments shall be periodically reviewed by the board. Chiefs of clinical departments vacancies may be filled on an interim basis at any time by action of the dean of the appropriate professional college, after consulting with the board. (In general, the chiefs of clinical departments will be chairmen of corresponding academic departments in the medical college.)

(B) The board may delegate, through approval of the medical staff bylaws or by appropriate board resolution, to the chiefs of the clinical departments responsibility for maintaining the quality of medical care in their services, and for recommending an applicant's appointment or reappointment to the medical staff of the hospitals and privileges for such an applicant.

(C) The dean of the college of medicine serves as the chief medical officer and shall appoint a medical director who reports to the dean and to the board. In matters relating to medical care in the hospitals, members of the clinical departments of the hospitals are accountable to the clinical chiefs, who are accountable to the medical director, who is accountable to the dean of the college of medicine and to the board. The dean in this capacity is accountable directly to the vice president for health services and to the board. If one individual holds both the dean and vice president position, the medical director will serve as the chief medical officer in the hospital.

(D) The medical director shall be a physician and shall maintain an appointment as an attending or courtesy staff member of the medical staff. The medical director shall have authority as conferred by the dean and the hospitals board; including the responsibility for clinical research and education programs and services at university hospitals, supervision of patient and clinical activity; and responsibility for the clinical organization of the hospitals. The medical director shall direct and supervise the medical staff quality assurance, utilization review, and credentialing activity. The medical director shall establish priorities, jointly with the executive director of the hospitals, for capital medical equipment, clinical space, and the establishment of new clinical programs, or the revision of existing clinical programs.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the University Hospitals Board Bylaws be adopted as recommended by the University Hospitals Board.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.
JOSEPH SULLIVANT MEDAL AWARD

Resolution No. 90-99

Synopsis: The Academic Affairs Committee recommended the awarding of the Joseph Sullivant Medal.

WHEREAS the Joseph Sullivant Medal is awarded once every five years as a memorial to the eminent services of Joseph Sullivant who, as a member of the first Board of Trustees, contributed significantly in determining the character and future of The Ohio State University; and

WHEREAS pursuant to the procedure established by this Board of Trustees, nominations for the award were referred through the Dean of the Graduate School to a Board of Award appointed by the President; and

WHEREAS after a careful review of all nominations this Board of Award recommends to the President that Leo A. Paquette, Professor in the Department of Chemistry, be the recipient of this award; and

WHEREAS the President, in support of this recommendation and on behalf of the Board of Trustees, authorizes the granting of this medal at a time convenient to the University and the recipient:

NOW THEREFORE

BE IT RESOLVED, That the Joseph Sullivant Award be presented in accordance with the provisions for granting this award.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Scott:

John, I would just like to comment on the Joseph Sullivant Medal Award. For historical purposes, this award was named in honor of a Board of Trustee member who served at the very inception of this institution. Someone thought so much and so highly of his work as a Board member, that this fund was established in perpetuity to select a person -- a faculty member, in particular at the University every five years as demonstrated here.

Mr. Kessler:

Why every five years?

President Jennings:

Fund limitations.

Mr. Scott:

Right. It started in 1920, Jack. I just wanted to point out to you what it is all about.
April 5 and 6, 1990 meeting, Board of Trustees

JOSEPH SULLIVANT MEDAL AWARD (contd)

President Jennings:

It is also intended to be an extraordinarily distinguished award. And I think every five years is appropriate, because it emphasizes the distinction with which the institution holds the recipient.

Mrs. Bowser:

It's a financial gain for that person, as well as the honor of being selected.

President Jennings:

It is a $10,000.00 award.

Mr. Teaford:

It is going to an extremely distinguished member of the faculty.

--0--

PERSONNEL ACTIONS

Resolution No. 90-100

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the March 2, 1990 meeting of the Board, including the following Reappointment of Principal Administrative Officials, Appointment of Chairpersons of Departments and Division and Directors of Center and Program, Reappointment of Chairpersons of Departments and Divisions, Leaves of Absence Without Salary, Professional Improvement Leaves, and Emeritus Title as detailed in the University Budget be approved, and the Medical Staff Appointments approved February 22 and March 15, 1990, and the Physician Extender Applications approved March 15, 1990, by the Hospitals Board be ratified.

Reappointment of Principal Administrative Officials

FRANCIS X. BEYTAGH, Dean, College of Law, effective July 1, 1990, through June 30, 1995, pursuant to rule 3335-3-17 of the Administrative Code.

ROY A. KOENIGSKNECHT, Dean, Graduate School, effective July 1, 1990, through June 30, 1995, pursuant to rule 3335-3-17 of the Administrative Code.

Appointment of Chairpersons of Departments and Division and Directors of Center and Program

January 1, 1990 through June 30, 1990

University Honors Program

Mabel G. Freeman*

March 1, 1990 through June 30, 1990

Spanish and Portuguese

Salvador Garcia*
April 5 and 6, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Departments and Division and Directors of Center and Program (contd)

April 1, 1990 through June 30, 1990

Center for Comparative Studies                Sabra Webber*

May 1, 1990 through September 30, 1993

Division of Pharmaceutics and Pharmaceutical Chemistry          William L. Hayton

July 1, 1990 through June 30, 1994

Agricultural Economics and Rural Sociology  Stanley R. Thompson
Horticulture                                Luther Waters, Jr.

Reappointment of Chairpersons of Departments and Divisions

July 1, 1990 through June 30, 1991

Agricultural Education                        R. Kirby Barrick, Jr.*
Photography and Cinema                        J. Ronald Green*

July 1, 1990 through June 30, 1994

Agronomy                                    Frederick P. Miller
ATI - Agricultural Business                 Mark E. Headings
ATI - Animal Industries Technology          Ronald J. Borton
ATI - Horticulture Industries               Gary A. Anderson

October 1, 1990 through September 30, 1994

Psychology                                  James C. Naylor

*Acting Chairpersons/Directors

Leaves of Absence Without Salary

CARY RADER, Associate Professor, Department of Mathematics (Newark Campus), effective Spring Quarter 1990, to accept a position as Visiting Associate Professor of Mathematics at Cleveland State University.

FRANK E. BLOCK, JR., Assistant Professor, Department of Anesthesiology, effective June 1, 1990, through June 30, 1990, for personal reasons.

LAURA A. SHEPARD, Instructor, University Libraries, effective March 1, 1990, through April 22, 1990, for personal reasons.
April 5 and 6, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves

RICHARD T. GARNER, Professor, Department of Philosophy, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

DAVID E. HAHM, Professor, Department of Classics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

ARNOLD M. ZWICKY, Professor, Department of Linguistics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

VASSILIOS LAMPROPOULOS, Associate Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

Emeritus Title

SYDNEY S. Y. YOUNG, Department of Entomology, with the title Professor Emeritus, effective April 1, 1990.

Medical Staff--Appointments

ISABEL CUNNINGHAM, M.D., Attending Staff, Division of Bone Marrow Transplantation

ARTHUR M. GILMAN, M.D., Limited Staff, Division of Neurosurgery

MARY LOU KACHMER, M.D., Limited Staff, Ophthalmology

PABLO R. OLMOS, M.D., Limited Staff, Endocrinology and Metabolism

ANTHONY C. PEARSON, M.D., Attending Staff, Division of Cardiology

WILLIAM J. POLINSKI, D.O., Courtesy Staff, Division of Cardiology

CHANG-YONG TSAO, M.D., Attending Staff, Pediatrics

WILLIAM R. ZERICK, M.D., Limited Staff, Division of Neurosurgery

Physician Extender Applications

JONA K. GILL, Assistant, Allergy Clinic, Division of Rheumatology and Immunology, Donald L. McNeil, M.D., Supervising Physician

LARRY VANDEGREEK, Departments of Pastoral Care and Neurology, George W. Paulson, M.D., Supervising Physician

KIM M. WATSON, Senior Heart Transplant Coordinator, Division of Thoracic & Cardiovascular Surgery, P. David Myerowitz, M.D., Supervising Physician

Upon motion of Mr. Wexner, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
April 5 and 6, 1990 meeting, Board of Trustees

Mr. Scott:

The resolution before you is a request to this Board for the purchase of prior years of teaching service. As you know, the Board approved an early retirement program which goes through December 31, 1991. This resolution asks the Board to let the University substitute the purchase of some teaching time for an individual faculty person in lieu of participating in the already established early retirement incentive program. It is cost beneficial to the University. In other words, it will cost us less to do this and it certainly is financially advantageous for the professor.

PURCHASE OF PRIOR YEARS OF TEACHING SERVICE

Resolution No. 90-101

WHEREAS under state law provision is made for supplementing a person's retirement benefit by the purchase of prior years of teaching service credit at state universities other than in the State of Ohio; and

WHEREAS Professor Andrew J. Broekema qualifies under this law for the purchase of additional years of such credit in the State Teachers Retirement System of Ohio; and

WHEREAS the purchase of four years of service credit would be cost beneficial to the University and financially advantageous to Professor Broekema; and

WHEREAS the purchase of such service credit would be in lieu of Professor Broekema's participation in the University's early retirement incentive plan implemented pursuant to authority set forth in Substitute House Bill, 410 which was approved by the 115th General Assembly:

NOW THEREFORE

BE IT RESOLVED, That the Secretary of the Board be authorized to implement the purchase of such prior service credit (4 years) in the State Teachers Retirement System of Ohio on behalf of Andrew J. Broekema from unrestricted monies received by the University pursuant to Section 3345.18 of the Ohio Revised Code.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 90-102

Synopsis: The Academic Affairs Committee recommended the approval of eight Resolutions in Memoriam for Ralph E. Bender, Charles A. Doan, Robin C. Obetz, Ralph W. Sherman, James I. Tennenbaum, George L. Tilley, James D. Utzinger, and James V. Warren.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

908
RESOLUTIONS IN MEMORIAM (contd)

Ralph E. Bender

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 10, 1990, of Ralph E. Bender, Professor Emeritus in the Department of Agricultural Education.

Professor Bender, a native of Marion County, Ohio, was born in 1910. He received the Bachelor of Science degree in 1933; the Master of Arts degree in 1941; and the Doctor of Philosophy degree in 1947, all from The Ohio State University. From 1933 until 1937, he taught vocational agriculture at Anna High School. He moved to Canal Winchester in 1937, where he taught vocational agriculture and was a non-resident instructor in the Department of Agricultural Education at Ohio State. His responsibilities included directing student teaching experiences for undergraduates in agricultural education.

In 1947, Professor Bender joined the resident faculty at Ohio State and was appointed Chairperson of the Department of Agricultural Education in 1948, a post he held until his retirement 30 years later. His leadership and guidance were directly responsible for building the department into one that is clearly recognized nationally and internationally as the most outstanding department for undergraduate and graduate education in agricultural education.

Dr. Bender was co-author of a textbook on youth organizations and he developed and taught advanced courses in youth development. He served as a consultant to numerous organizations and was a Visiting Professor at five major universities.

Professor Bender was a student of agricultural education throughout his entire life. His career demonstrated that he was a master teacher and administrator. He prepared students to become better teachers through instruction and by example. In addition, he contributed to his profession, serving as a leader in teacher education and vocational education organizations. He was recognized by numerous groups for his contributions.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board’s heartfelt sympathy.

Charles A. Doan

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 13, 1990, of Charles A. Doan, M.D., Dean Emeritus in the College of Medicine and Professor Emeritus in the Department of Internal Medicine.

A native of Nelsonville, Ohio, Dr. Doan graduated from Hiram College in 1918 and from the Johns Hopkins Medical School and Harvard Medical School in 1923. He obtained his residency training at Johns Hopkins Hospital in 1923. He also holds an honorary Doctor of Science degree.

From 1925 until 1930, Dr. Doan served as Associate in Medical Research at the Rockefeller Institute for Medical Research. In 1930, he was appointed Professor of Medicine and Director of the Department of Medical and Surgical Research at The Ohio State University. In 1936, he was subsequently appointed as Chairperson of The Ohio State University Department of Medicine and Physician-in-Chief of the Starling-Loving University Hospital. From 1944 until 1961, Dr. Doan served as Dean of the College of Medicine. He concurrently served as Professor of Medicine, Director of the Health Center and Director of Medical Research. In 1961, Dr. Doan was
RESOLUTIONS IN MEMORIAM (contd)

Charles A. Doan (contd)

appointed Dean Emeritus, while at the same time being named Director of the Division of Hematology. In 1983, the old University Hospital at Ohio State was renamed Charles A. Doan Hall in his honor.

Dr. Doan was highly respected throughout the nation for his administrative abilities and his research expertise in the field of blood disorders. He authored a significant number of publications in his field of research interest. He was a noted lecturer and teacher and was frequently sought for international conferences. Among his honors and awards were the Hiram College Distinguished Service Award; Special Award of Merit from The Ohio State University College of Medicine; Distinguished Service Award from the American Medical Association; and Distinguished Service Award from The Ohio State University.

He was a member of a number of Medical societies and boards, including the American Society of Hematology, of which he served as President; The American Geriatrics Society; the Editorial Board of Blood; the American College of Physicians; and the American Cancer Society Crusade Chairman.

Dr. Doan will long be remembered by his many friends and associates at The Ohio State University for his devotion to the advancement of medical science.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Robin C. Obetz

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 24, 1990, of Robin C. Obetz, M.D., Assistant Professor Emeritus in the Department of Internal Medicine.

Dr. Obetz was born on November 10, 1903, in Columbus, Ohio, where he attended local public schools. He graduated from The Ohio State University with a Bachelor of Science degree, later completing medical school here in 1928. Following medical school, Dr. Obetz did internship and residency training at Johns Hopkins Hospital and completed his postgraduate training in 1930.

He joined the Army Air Force in 1942 and achieved the rank of Major. In 1945, he was discharged from the service and establish a medical practice in Central Ohio.

Dr. Obetz first joined the faculty in the Department of Internal Medicine in 1945 with the rank of Assistant Professor. Over the course of his more than forty-four years on the faculty, Dr. Obetz devoted his time untiringly to the training of medical students and postgraduate trainees. He was a highly respected physician and teacher, who was known for his compassion and humanitarianism in dealing with patients and colleagues alike.

Upon his retirement from the faculty in 1973, Dr. Obetz was bestowed the honor of an emeritus appointment. This distinction recognized his many dedicated years of service to the institution that he supported unselfishly.
RESOLUTIONS IN MEMORIAM (contd)

Robin C. Obetz (contd)

Dr. Obetz was a member of a number of prestigious medical associations and was active in community affairs.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Ralph Walter Sherman

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 2, 1990, of Ralph Walter Sherman, Professor Emeritus in the Department of Agricultural Economics and Rural Sociology.

Ralph Sherman was born in Thornville, Ohio, on April 27, 1903. In 1922, Professor Sherman entered The Ohio State University, where he alternated classwork with employment for nearly seven years until he received his Bachelor of Science in Agriculture degree. Dr. Sherman began his 41-year career in the Department of Agricultural Economics and Rural Sociology as a Teaching Assistant in October 1929, the month of the stock market crash, and soon after became a Research Assistant. He received the Master of Science and Doctor of Philosophy degrees from The Ohio State University in 1932 and 1947, respectively and was a member of Gamma Sigma Delta and Pi Alpha Xi, agricultural honoraries.

Dr. Sherman retired on January 31, 1971. He was an esteemed colleague, admired and respected by faculty and graduate students for his analytical skills, teaching abilities, and personal concern for the progress of his students. Professor Sherman research a wide array of agricultural marketing topics, many of them related to the merchandising of fresh supermarket products and his work helped establish supermarket retailing practices that are now widely employed for packaged produce and cut flowers.

During his career at Ohio State, Professor Sherman advised more than 30 Ph.D. students. He wrote numerous university and experiment station publications and was co-author of two books and a Centennial history of the Department of Agricultural Economics and Rural Sociology. He was an active member of the campus community serving on: the University Faculty Council; the Graduate Council and Graduate Curriculum Committee of the Graduate School; the College of Agriculture Graduate Committee and Honorary Degrees Committee; and the Graduate Committee of the Department. Dr. Sherman had an incisive mind, a quick wit, and a most pleasant personality. He was a Socratic teacher, enjoyed theory and debate, and had a happy family. Dr. Sherman was a great basketball fan, and he was formidable at bridge and handball.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

James I. Tennenbaum

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 19, 1990, of James I. Tennenbaum, M.D., Clinical Professor in the Department of Internal Medicine.
RESOLUTIONS IN MEMORIAM (contd)

James I. Tennenbaum (contd)

A native of Cincinnati, Ohio, Dr. Tennenbaum graduated Phi Beta Kappa from the University of Cincinnati in 1954, and from the University of Cincinnati Medical School in 1958. His scholastic achievement during medical school training resulted in his being offered membership in Alpha Omega Alpha, the medical honorary society.

Following medical school, Dr. Tennenbaum served an internship at the Jewish Hospital in Cincinnati, where he also served as Assistant Medical Resident. In 1960, he was appointed Medical Chest Resident at Bellevue Hospital in New York, and later was named Senior Medical Resident at the Veterans Administration Research Hospital in Chicago.

Dr. Tennenbaum served in the U.S. Air Force from 1963 to 1965, where he was appointed Assistant Chief of Allergy at Wilford Hall Hospital in Texas. In 1965, he was appointed to the faculty of The Ohio State University College of Medicine, a capacity in which he served until his death.

Dr. Tennenbaum was widely respected in Central Ohio and, in fact, throughout the State for his work in the field of allergy. He authored almost forty papers in his field of research interest, the allergic antibody. He was a noted lecturer and teacher and was single-handedly responsible for organizing allergy instruction in the College of Medicine until recent years.

He was a member of a number of prestigious medical societies including: the American College of Physicians; American Academy of Allergy; and the American Federation for Clinical Research.

Dr. Tennenbaum will long be remembered by his many friends and associates at The Ohio State University for his devotion to the advancement of medical science.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

George L. Tilley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 7, 1990, of George Lewis Tilley, Professor Emeritus in the School of Architecture.

Professor Tilley was born in Kenton, Ohio, on June 5, 1912. Following an introduction to civil engineering at Ohio Northern University in 1931, he entered The Ohio State University architecture program and graduated with a Bachelor of Architecture degree in 1937 and was awarded the Alpha Rho Chi Medal.

Following two years of practice in consulting offices he entered the U.S. Navy in 1942 and served as a LT (jg) in Pacific amphibious operations. In 1945, he returned to professional practice in the Austin Co., Detroit, MI, and in 1947 he joined the faculty of the School of Architecture, The Ohio State University.
RESOLUTIONS IN MEMORIAM (contd)

George L. Tilley (contd)

During the next twenty-eight years of a distinguished academic career at Ohio State, Professor Tilley taught graphics and construction at introductory levels and architectural design at all levels including thesis design. In 1968, he was appointed to the position of Secretary to the School of Architecture, the office which he held until his retirement in 1974. From 1948-60, he was the Faculty Advisor to the Student Chapter of the American Institute of Architects.

Professor Tilley's expertise was sought for many planning and development projects at the University and the City of Columbus. In 1963-64, he undertook the preparation of the architectural requirements for a major building program in the College of Engineering. In 1963 the Mayor appointed him to a four-year term as the architect member of the German Village Commission which was charged with responsibilities for preservation of the historic district and liaison with the City Planning Commission in the development of the area through private enterprise.

During his academic career and after his retirement Professor Tilley was active in architectural practice. During 1947-62 he was associated with the Office of the University Architect and the following consulting firms: Hansen & Tilley; Brooks and Coddington; Croce & Abbot; and Tulley and Hobbs. In the 1970's and 80's, he had professional associations with the architectural firms of Acock & White, and Feinknopf Macioce & Schappa. He also served as secretary treasurer of the American Institute of Architects Columbus Chapter.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

James D. Utzinger

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on March 2, 1990, of James D. Utzinger, Professor in the Department of Horticulture.

Professor Utzinger was born April 3, 1932, in Franklin County. He received the Bachelor of Science degree in 1954; Master of Science degree in 1959; and the Doctor of Philosophy degree in 1969, all from The Ohio State University. Following the baccalaureate degree he was commissioned 2nd Lieutenant in the United States Army, later promoted to 1st Lieutenant, and served two years active duty as an artillery officer at Fort Sill, Oklahoma. Following completion of the Master of Science degree, he taught comprehensive science and vocational horticulture for eight years in the South-Western City schools, Franklin County.

After joining the Department of Horticulture in 1967, Dr. Utzinger made valuable contributions both as a teacher and extension specialist.

His enthusiasm for both his students and his subject matter was recognized in 1987 when he was the recipient of The Ohio State University Alumni Award for Distinguished Teaching.
April 5 and 6, 1990 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

James D. Utzinger (contd)

Dr. Utzinger was head of the Ohio Home Horticulture Center in the Department of Horticulture, where his vast range of knowledge, writing, and teaching of extension faculty throughout the state were widely recognized. His belief that "horticulture is everyone's agricultural opportunity," expressed his philosophy that through successfully growing fruits, vegetables, and ornamental plants all of Ohio's citizens would be able to experience the world of agriculture. His efforts were directed at educating Ohio's citizens so that they could be enabled to have this kind of success.

Dr. Utzinger was active in many local, state, and national horticultural organizations and had held several offices in the American Society for Horticultural Science. He had served both as Associate Chairperson and Acting Chairperson of the Department of Horticulture.

Until his death, he served his community in many ways including chairman for the development of the Gardens at Gantz Farm, Grove City, and his church as president of the congregation and as chairman of pastoral care.

Professor Utzinger shared his scholarship with all who came to know him. He cared about each individual he met. His open, friendly manner and sincere personal interest in others caused all of us who knew him to value his counsel and mourn his passing.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

James V. Warren

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 14, 1990, of James V. Warren, M.D., Professor Emeritus in the Department of Internal Medicine.

A native of Columbus, Ohio, Dr. Warren graduated from The Ohio State University in 1935, and from the Harvard Medical School in 1939. His scholastic achievement during medical school training resulted in his being offered membership in Alpha Omega Alpha, the medical honorary society. He also holds an honorary Doctor of Science degree from Emory University, which was awarded in 1974.

Following medical school, Dr. Warren did residency and subspecialty training at Peter Bent Brigham Hospital and Harvard Medical School, respectively.

In 1942, he was appointed to the faculty of Emory University Medical School. Subsequently, he held appointments at Yale University Medical School and at Emory University Medical School, where he served as Professor and Chairman of the Department of Physiology and Associate Professor of Medicine. In 1951, he was promoted to Professor of Medicine. In 1952, Dr. Warren was appointed Professor of Medicine at the Duke University School of Medicine, and in 1958 Professor and Chairman of the University of Texas Department of Medicine. In 1961 he was appointed Chairperson and Professor of The Ohio State University Department of Medicine, serving in that capacity until 1979. In 1986, Dr. Warren retired from the faculty of The Ohio State University Division of Cardiology and was appointed Professor Emeritus.
RESOLUTIONS IN MEMORIAM (contd)

James V. Warren (contd)

Dr. Warren was widely respected in Ohio and, in fact, had an international reputation for his work in the field of cardiovascular disease. He authored more than 200 papers in his field of research interest. He was a noted lecturer and teacher and was frequently sought for international conferences. Among Dr. Warren's honors and awards were: the American Heart Association's Gold Heart Award; James B. Herrick Award; the Association of Professors of Medicine's Robert H. Williams Distinguished Chairman of Medicine Award; the Cummings Humanitarian Award; the Duke University Medical School Distinguished Alumnus Award; the Mayor's Award for Voluntary Service (Columbus, Ohio); the American Heart Association's Outstanding Achievement Award; and The Ohio State University Distinguished Service Award.

He was a member of a number of prestigious medical societies including: the Association for the Advancement of Science; Academy of Medicine of Columbus; the American Board of Internal Medicine; the American College of Cardiology; American College of Physicians; American Federation for Clinical Research; and American Heart Association, of which he served as National President in 1962-63.

Dr. Warren will long be remembered by his many friends and associates at The Ohio State University for his devotion to the advancement of medical science.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

The Student Affairs Committee met this morning. We had a slide presentation, as well as a talk by Gina Johnson-Freeman, who runs the Project Leisure Education-Participation (PLEP) program of the Department of University Recreation and Intramural Sports.

This program provides recreation services during the school year for over 300 individuals with disabilities. Activities provided include, but are not limited to, swimming, conditioning, wheelchair tennis, and adapted golf. The overall purpose of the program is to provide recreation opportunities in an environment which enhances independence and integration. The program targets two specific consumer groups: the OSU community and the central Ohio community. Beyond the recreation opportunities provided for individuals with disabilities, student workers and volunteers receive practical experience in working with this population. Approximately 500 students from major areas such as Physical Therapy, Occupational Therapy, Recreation, and others have benefitted from this experience.
April 5 and 6, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Barone: (contd)

I might further add that this spring we have a paraplegic student graduating from the College of Law. He will be specializing in sports law. He has already done quite a bit of work in the professional program for Columbus in obtaining a professional basketball team. I have to give credit for that to Dick Jackson who was involved, and got me involved, and I am happy to see that he has carried on with the program and will graduate.

We also heard from Steve Dibert from the Interprofessional Council. He was very concerned about the increase in costs for graduate students, especially in the Colleges of Medicine and Law. His opinion was that from everything that he has learned that there could be a possible 40 percent increase in the Colleges of Law and Medicine. Of course, I realize in the Law School Dr. Beytagh receives about 2,500 applications every year and only approves approximately 10 percent. The College of Medicine is a little more difficult. The increases have been forthcoming in the professional area. I don't know what can be done because it is generalized but when it is compared with other schools we are very low.

At this time I would like to, on behalf of this Board, express appreciation to Steve Dibert with this proclamation:

EXPRESSION OF APPRECIATION

Resolution No. 90-103

WHEREAS Steve Dibert has served as president of the Interprofessional Council during the past two years; and

WHEREAS he has carried out his assignments in an outstanding manner; and

WHEREAS his leadership in representing the interest of students has been positive in nature as has been his communication with both the Board of Trustees and the Administration; and

WHEREAS his resolve, dedication, and support of this University has been evidenced in innumerable ways over the past two years:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Steve Dibert its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

Upon motion of Mr. Teaford, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mrs. Bowser:

I think it is particularly hard to find the time as a professional student to serve in this capacity and we should take note of the time that it takes out of his schedule.
April 5 and 6, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Steve Dibert:

I would like to thank you for this unexpected surprise. I would like to say that it was about a year and a half ago that I sat before the Board requesting help in acquiring an office for the Interprofessional Council, which at that time consisted of just a folder. With the Board's magic somehow we got a room within a month. And since then, this has facilitated our ability to increase communication within the professional schools and has allowed us to pursue many avenues in which to improve communications in those areas. I would just like to thank the Board, again, and hope that the groundwork that we have laid for the Interprofessional Council will be able to be built upon in the future by presidents to come. Thank you.

Mr. Barone:

We also had reports from Luke Evans and David Straub; both expressing concern with finances. David brought up the ineffective checkoff process for the Student Health Insurance Plan on the fee statements. There is a negative checkoff to decline the health insurance and a positive checkoff to make a donation to the student governments. He would like to see some consistency with the checkoff system, either both positive or both negative checkoffs, to alleviate confusion.

Mr. Dibert:

I would just like to clarify in the report that I gave earlier today, it is not that we are anticipating a 40 percent increase, but over the last four years both medical and law have incurred a 40 percent increase. And we are anticipating another 15 percent increase this year. I just wanted to clarify that.

---0---

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

At the last Board meeting the question was asked about Ohio State's involvement in the AmeriFlora program in 1992. We devoted our Committee meeting this morning to our involvement — both the investment and the paybacks. We received a very concise, 3 page document that they put together. The back page shows the expenses and the types of expenses by support for those of you who are interested.

Then we devoted quite a bit of our time talking about the two facilities that we will be involved with. One is the Bio-containment Facility which will be located on our campus and will be built with the purpose of bringing foreign plant materials into this country and quarantining them for a certain period of time. After AmeriFlora that will then revert to the Horticulture use. The chain-link fence will come down, which is put up for security purposes, and it will then, hopefully, be attached to our greenhouses at Howlett Hall.

The other building that we discussed was the Discovery Center, located at Franklin Park. This building is in the planning stages now; the architect is working with both AmeriFlora and with the University. This building will be used for exhibition purposes. They had some preliminary sketches; it looks like an exciting area for exhibits. The planning right now is sort of on the Disney model where you move
Mrs. Bowser: (contd)

from theater to lecture to slides, and that kind of thing, and Ohio State will be the ending feature. Our area will be in the center. The University is planning some very fine exhibits there. We will also be doing some recruiting particularly aimed at the younger students and youngsters that will be coming through, telling them about our University and about the opportunities in horticulture and related fields.

There is some discussion about using this building after the AmeriFlora program. The outside portion will be made of glass and steel, and we are looking at it to see if that could be moved to our facility here and be used in connection with the College of Agriculture. The Chadwick Arboretum would be the area that might be able to utilize this. But at the moment they are still looking at the costs, use, and all of those things.

Both Dr. Warmbrod and John Ellinger, who is the financial Vice President in Agriculture, are here with us this morning. Six of the Trustees were in the Committee meeting and did have a chance to ask any and all questions, but I don't want to eliminate the other five of you that were not present. So, both of those gentlemen are here and I am sure would be willing to answer any questions you might have. It looks exciting. I personally feel, that the commitment we are making financially will more than be repaid both in the exposure that we will have to an national/international community and for the facilities that we will gain, too.

Mr. Kessler:

I think that is right, Shirley, particularly as you pointed out, with us having a 5,000 square foot area in Franklin Park next to the Conservatory. We will be performing there for, not only the University, but for the College. I think it is a wonderful opportunity, as we said, to do this in a world-class manner.

(See Appendix LXII for AmeriFlora '92 Report, page 970.)

--0--

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Kessler:

Mr. Nichols described the new format for the Endowment Portfolio Report. The Committee is also recommending the following resolutions:

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 90-104

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summary for February 1990.
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of February 1990 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR FEBRUARY 1990

Background

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>85</td>
<td>$4,620,282.10</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>60</td>
<td>$103,146.00</td>
</tr>
<tr>
<td>Total</td>
<td>145</td>
<td>$4,723,428.10</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

- The Neil M. Klatskin Memorial Scholarship Fund in Real Estate (Scholarships - College of Business) $25,000.00
- The Epsilon Sigma Phi Leadership Fund (Improve the quality of educational programs offered by the Cooperative Extension Service) $15,376.00
- The Gerry D. Guthrie Memorial Library Fund (Acquisition of library materials related to American History) $15,183.00
- The Henry J. Barre Award for Graduate Study in Agricultural Engineering (Stimulate graduate study, with emphasis on grain drying, storage and materials handling) $15,000.00
- The Sara P. Sprague Howser Endowed Scholarship (Scholarships - Marion Campus) $15,000.00
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR FEBRUARY 1990 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The Woodford Zimmerman Memorial Scholarship Fund
(Scholarships - students twenty-five years of age or older) $ 15,000.00

Change in Name of Fund

From: The Shih-Yuan Michael Chen Scholarship Fund
To: The Michael Shih-Yuan Chen Memorial Scholarship Fund

Change in Description of Named Fund

The Stark County Alumni Scholars Program
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - February 1990

Federal Research Contracts/Grants

$400,000.00 - Department of Education, Washington, D.C., Rehabilitation Engineering Center for the Quantification of Human Performance, Department of Surgery (S. R. Simon), Department of Preventive Medicine (W. S. Pease), Department of Computer and Information Science (T. C. Bylander), Department of Electrical Engineering (H. N. Hemami), and Department of Industrial and Systems Engineering (W. S. Marras), 1 February 1990 through 31 January 1991. (Project 766622 - Continuation)

$164,059.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Psychopathology and Grief in Children Post-Parental Death, Department of Psychiatry (E. B. Weller), 1 February 1989 through 31 January 1991. (Project 767244 - Continuation)

$140,000.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, ARMS -- An Acoustics-Based Resuspension Measurement System for In-Place Estimates of Entrainment and Erosion from Dredged Material Disposal Sites, Department of Civil Engineering (K. W. Bedford), 1 October 1989 through 30 September 1990. (Project 766710 - Continuation)

$132,327.00 - Department of Health and Human Services, National Institute on Aging, Bethesda, Maryland, Cellular Mechanisms of Human Immunosenescence, Department of Internal Medicine (R. Whisler), 1 March 1990 through 28 February 1991. (Project 763761 - Continuation)

$121,333.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Regulation of Gene Expression in the Developing Retina, Biotechnology Program (A. P. Young), 1 October 1989 through 31 July 1990. (Project 767898 - New)

$108,864.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Human Thrombin: Binding and Recognition Sites, Department of Chemistry (L. J. Berliner), 1 February 1990 through 31 January 1991. (Project 761742 - Continuation)

$100,000.00 - Department of Defense, Defense Supply Service, Washington, D.C., Military Adaptation, Mershon Center for Education (A. R. Millett) and Department of History (W. Murray), 30 November 1989 through 30 September 1990. (Project 767852 - Continuation)

$96,000.00 - National Science Foundation, Washington, D.C., Mechanism of Adenylate Kinases, Department of Chemistry (M. D. Tsai), 1 March 1990 through 28 February 1991. (Project 768120 - New)

$84,968.00 - Department of Health and Human Services, National Institute on Deafness and Other Communication Disorders, Bethesda, Maryland, The Gustatory System: Cellular and Synaptic Organization, Oral Biology (M. C. Whitehead), 1 February 1990 through 31 January 1991. (Project 766582 - Continuation)

$83,606.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Sertoli Cell-Germ Cell Surface Membrane Interactions, Department of Anatomy (R. M. DePhilip), 1 March 1990 through 28 February 1991. (Project 764825 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$75,043.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Fenfluramine and Methylphenidate in Mental Retardation, Nisonger Center (M. G. Aman), 1 February 1990 through 31 January 1991. (Project 767185 - Continuation)

$73,930.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Engineering Calculations for Communications Satellite Systems Planning, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton) and Department of Industrial and Systems Engineering (C. H. Reilly), 27 February 1990 through 27 November 1990. (Project 762552 - Continuation)

$69,281.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Improvement of the Earth’s Gravity Field from Terrestrial and Satellite Data, Department of Geodetic Science and Surveying (R. H. Rapp), 1 June 1990 through 31 May 1991. (Project 768128 - New)

$65,840.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Targeting of Organellar Protein Synthesis Factors, Department of Biochemistry (C. A. Breitenberger), 1 February 1990 through 31 January 1991. (Project 766576 - Continuation)

$62,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integration Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1989 through 30 June 1990. (Project 766995 - Continuation)

$62,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Electrical Engineering (Y. F. Zheng), 1 February 1990 through 31 January 1991. (Project 767624 - Continuation)

$56,000.00 - National Science Foundation, Washington, D.C., The Structure of the Broad-Line Region in Active Galactic Nuclei, Department of Astronomy (B. M. Peterson), 15 February 1990 through 31 January 1991. (Project 768093 - New)

$55,564.00 - National Science Foundation, Washington, D.C., Study of Sediment, Glacier Ice, and Silicate Spherules, Walcott Neve, Antarctica, Byrd Polar Research Center and Department of Geology and Mineralogy (G. Faure), 1 March 1989 through 31 August 1991. (Project 767381 - Continuation)

$39,000.00 - National Science Foundation, Washington, D.C., Free Loop Space, Automorphisms of Manifolds and Cyclic Homology, Department of Mathematics (D. Burghelea), 1 February 1990 through 31 January 1991. (Project 768108 - New)

$38,529.00 - National Science Foundation, Washington, D.C., Orthogonal Polynomials and Their Applications, Department of Mathematics (P. Nevai), 1 January 1991 through 31 December 1991. (Project 766825 - Continuation)

$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: An Intelligent Planning Environment for Dimensional Inspection, Department of Mechanical Engineering (C. H. Menq), 1 July 1990 through 31 October 1990. (Project 767947 - Continuation)
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Mathematics (K. Rubin), 1 February 1990 through 31 January 1991. (Project 766905 - Continuation)

$37,207.00 - Department of Defense, National Security Agency, Fort George G. Meade, Maryland, Some Problems of Design Theory and Difference Sets, Department of Mathematics (D. K. Ray-Chaudhuri), 1 July 1989 through 30 September 1990. (Project 766961 - Continuation)

$33,425.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cardiac Characteristics in Copper Deficiency, Department of Human Nutrition and Food Management (D. Medeiros), 5 February 1990 through 31 July 1990. (Project 768104 - New)


$30,591.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, A Study of the Relation Between the Solar Luminosity, Line Blanketing, and Velocity Fields, Department of Astronomy (W. E. Mitchell), 1 March 1990 through 28 February 1991. (Project 768121 - New)

$30,029.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Free Flight Composite Head Development, Department of Mechanical Engineering (J. A. Collins), 1 January 1990 through 30 September 1990. (Project 765776 - Continuation)

$27,823.00 - Department of Agriculture, Science and Education, Washington, D.C., Institutional Support from the Animal Health and Disease Research Act of 1977, Veterinary Medicine Administration (R. A. Wright), Department of Veterinary Preventive Medicine (R. D. Slemons and C. R. Dom), and Department of Veterinary Clinical Sciences (G. F. Hoffsis), 1 October 1989 through 30 September 1990. (Project 762621 - Continuation)

$25,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, ElectroScience Laboratory, Department of Electrical Engineering (R. Rudduck), 31 January 1990 through 30 June 1990. (Project 763724 - Continuation)

$17,843.00 - Department of Defense, Defense Construction Supply Center, Columbus, Ohio, Recreational Facility and Program Management: An Analysis of Civilian Work Force Recreational and Wellness Practices of the Defense Construction Supply Center, Columbus, Ohio, School of Health, Physical Education, and Recreation (W. J. Rudman), 1 February 1990 through 31 July 1990. (Project 767308 - Continuation)

$14,991.00 - Tennessee Valley Authority, Knoxville, Tennessee, Establishing and Operating a Clearinghouse for the Environmental Education Center Network, Department of Educational Studies: Humanities, Science, Technological, and Vocational (R. W. Howe), 1 February 1990 through 31 December 1990. (Project 768095 - New)
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$14,250.00 - National Science Foundation, Washington, D.C., Laser Flash Photolysis Studies of Alkyl and Dialkyl Carbenes, Department of Chemistry (M. S. Platz), 1 September 1990 through 31 August 1991. (Project 768088 - New)

$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Stress, Coping, and Social Support in Hemodialysis Clients, Department of Family and Community Nursing (E. M. Menke), 1 February 1990 through 31 January 1991. (Project 768099 - New)

$9,996.00 - National Research Council, Washington, D.C., Ohio Mathematics Coalition, Department of Mathematics (F. Demana), 1 July 1990 through 30 June 1991. (Project 768096 - New)

$4,000.00 - National Science Foundation, Washington, D.C., The Relativistic Optical Model at Intermediate Energies, Department of Physics (B. C. Clark), 15 July 1989 through 30 June 1990. (Project 767674 - Continuation)

TOTAL - FEDERAL AWARDS $2,391,435.00

State of Ohio Research Contracts/Grants


$71,388.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Center for Real Estate Education and Research, Academic Faculty of Finance (R. L. Racster), 1 January 1990 through 31 December 1990. (Project 767946 - Continuation)

$30,000.00 - State of Ohio, Public Utilities Commission, Columbus, Ohio, Small Telephone Company Survey, National Regulatory Research Institute (D. N. Jones), 1 February 1990 through 30 June 1990. (Project 768103 - New)


$25,000.00 - State of Ohio, Public Utilities Commission, Columbus, Ohio, Critical Analysis of Ameritech's Revised Open Network Architecture Plan, National Regulatory Research Institute (D. N. Jones), 1 February 1990 through 30 June 1990. (Project 768115 - New)

$21,719.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Daphnia Production Techniques for Rearing Fingerling Walleye and Saugeye, Department of Zoology (D. A. Culver and B. Vondracek), 1 July 1989 through 30 June 1990. (Project 766202 - Continuation)
### REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

#### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

**State of Ohio Research Contracts/Grants (contd)**

- **$8,500.00** - State of Ohio, Department of Education, Columbus, Ohio, Building Linkages for At-Risk Youth and Adults in Ohio, Center on Education and Training for Employment (R. D. Ryan), 7 February 1990 through 30 April 1990. (Project 768101 - New)

**TOTAL - STATE OF OHIO AWARDS**

\[
\text{TOTAL} = \text{STATE OF OHIO AWARDS} = \$363,096.00
\]

**Industrial Research Contracts/Grants**

- **$533,000.00** - Community Mutual Blue Cross Blue Shield Insurance Company, Cincinnati, Ohio, A Study of the Causes of Health Care Cost Increases in the State of Ohio and an Evaluation of Alternatives to Contain the Increases, Hospital and Health Services Administration (S. F. Loebs), 1 February 1990 through 31 January 1992. (Project 768129 - New)


- **$25,000.00** - Ross Laboratories, Columbus, Ohio, Maximizing Yield of Specific Antibody in Mammary Secretion of Lactating Dairy Cows, Department of Dairy Science - OARDC (K. L. Smith), 1 January 1990 through 30 June 1990. (Project 765238 - Continuation)

- **$24,000.00** - HPM Corporation, Marion, Ohio, Job Task Analysis and Video Job Training Development for Die Cast Machine Remanufacturing, Education Administration (D. P. Anderson), 1 February 1990 through 30 June 1990. (Project 768105 - New)

- **$22,814.00** - Navistar International Transportation Corporation, Columbus, Ohio, Navistar International Fitness Program: Sports Management Internships, 1990, School of Health, Physical Education, and Recreation (W. J. Rudman), 1 January 1990 through 31 December 1990. (Project 767298 - Continuation)

- **$20,010.00** - The NutraSweet Company, Mt. Prospect, Illinois, Characterization of Flavor Profiles of Prototype Simplesse and Their Standard Cheeses During Storage by Isolation, Separation, and Identification, Department of Food Science and Nutrition - OARDC and Department of Food Science and Technology (D. B. Min), 1 January 1990 through 31 December 1990. (Project 768094 - New)


- **$11,339.50** - E. R. Squibb and Sons, Princeton, New Jersey, Evaluation of the Safety and Efficacy of Zofenopril Calcium Therapy in Patients with Chronic Heart Failure, Department of Internal Medicine (C. V. Leier), 1 October 1989 through 30 June 1990. (Project 767122 - Continuation)
Industrial Research Contracts/Grants (contd)

$10,314.00 - Boots Pharmaceuticals, Inc., Shreveport, Louisiana, BPI916-01 Study: Flosequinan 100 mg. -- Effect on Respiratory Response and Duration of Exercise, Department of Internal Medicine (C. V. Leier), 1 February 1989 through 30 June 1989. (Project 765932 - Continuation)


$6,637.50 - Sandoz, Inc., East Hanover, New Jersey, A Double-Blind, Multicenter Study to Determine the Safety and Efficacy of Chronic Sandostatin Treatment in Acromegalic Patients, Department of Internal Medicine (W. B. Malarkey) 1 March 1989 through 30 November 1990. (Project 767693 - Continuation)

$5,050.00 - Caremark Plus, San Bernardino, California, Patient Education and Clinical Management Services, Department of Internal Medicine (S. P. Balcerzak), 1 April 1989 through 30 June 1989. (Project 767279 - Continuation)

$3,500.00 - Pitman-Moore, Inc., Mundelein, Illinois, BACIFERM's Effect, as Compared to Other Feed Grade Antibiotics or No Antibiotics in the Diet, on Feed Efficiency and Rate of Gain in Swine, Department of Animal Science - OARDC and Department of Animal Science (K. M. Irvin), 15 January 1990 through 15 January 1991. (Project 767915 - Continuation)

$2,461.50 - Sandoz, Inc., East Hanover, New Jersey, An Open-Label, Multicenter Study to Determine the Safety and Efficiency of Chronic Sandostatin Therapy in Acromegalic Patients, Department of Internal Medicine (W. Malarkey), 18 December 1989 through 17 December 1990. (Project 767123 - Continuation)


TOTAL - INDUSTRIAL AWARDS $ 930,242.10

Other Non-Federal Research Contracts/Grants

$180,000.00 - Brookhaven National Laboratory, Upton, Long Island, New York, Boron-Neutron Capture Therapy of Cancer, Department of Pathology (R. F. Barth), College of Pharmacy (A. H. Soloway), Department of Mechanical Engineering (T. E. Blue), and Department of Surgery (J. H. Goodman), 1 January 1990 through 30 September 1990. (Project 768062 - Continuation)

$116,400.00 - Smith Richardson Foundation, Inc., New York, New York, The Ohio State Program in Military History and Strategic Studies, Department of History (J. J. Lynch), 1 October 1990 through 30 September 1995. (Project 768080 - Continuation)

$72,000.00 - The University of Rochester, Rochester, New York, Parkinson's Study Group, Department of Neurology (G. W. Paulson), 1 April 1989 through 31 March 1990. (Project 766244 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$60,000.00 - Brookhaven National Laboratory, Upton, Long Island, New York, Boron-Neutron Capture Therapy of Cancer, Department of Pathology (R. F. Barth), College of Pharmacy (A. H. Soloway), Department of Mechanical Engineering (T. E. Blue), and Department of Surgery (J. H. Goodman), 1 October 1989 through 31 December 1989. (Project 766081 - Continuation)


$46,524.00 - The University of Vermont, Burlington, Vermont, Contractile Properties of Mutant Drosophila melanogaster Muscle, Department of Molecular Genetics (S. Falkenthal), 1 January 1990 through 31 December 1990. (Project 768092 - New)

$45,208.00 - Paralyzed Veterans of America, Washington, D.C., The Role of Weightbearing and FES-Induced Exercises on Bone Loss After an Acute Spinal Cord Injury, Department of Physical Medicine (W. J. Mysiw) and Department of Internal Medicine (R. D. Jackson), 1 January 1990 through 31 December 1990. (Project 767303 - Continuation)

$44,925.00 - University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, Ohio, Ohio Developmental Disabilities Continuing Education, Nisonger Center (J. Rojahn and V. L. Reynolds), 1 January 1990 through 31 December 1990. (Project 764528 - Continuation)

$32,000.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 June 1989 through 30 September 1995. (Project 766536 - Continuation)

$30,000.00 - The Kemper Research Foundation, Milford, Ohio, An Environmental Study Evaluating the Effects of Treating Surfaces with an Immobilized Silane Antimicrobial in the Arthur James Cancer Center, Department of Internal Medicine and Cancer Hospital and Research Institute (B. C. Fox), Department of Pathology (L. W. Ayers), and University Health Service (C. R. Smith, Jr.), 15 February 1990 through 1 August 1992. (Project 768119 - New)

$27,854.00 - Iowa State University, Ames, Iowa, Spectroscopic Evaluation of Adhesive Bonds: Linear and Nonlinear Methods, Department of Welding Engineering (L. Adler), 1 October 1989 through 30 September 1990. (Project 768068 - Continuation)

$24,296.00 - Muscular Dystrophy Association, New York, New York, Collaborative Investigation of Duchenne Dystrophy, Department of Neurology (J. R. Mendell), 1 March 1989 through 28 February 1990. (Project 761360 - Continuation)

$23,991.00 - Iowa State University, Ames, Iowa, Nondestructive Evaluation of Structural Adhesive Bonding for Aircraft Applications, Department of Welding Engineering (S. Rokhlin), 1 October 1989 through 30 September 1990. (Project 768065 - Continuation)

$23,879.00 - Texas A & M University, College Station, Texas, Ocean Drilling Program Leg 130, Department of Geology and Mineralogy (L. Krissek), 24 January 1990 through 24 April 1990. (Project 768087 - New)

$22,000.00 - Universities Space Research Association, Houston, Texas, The Design of a Hypersonic Research Vehicle, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 August 1989 through 15 June 1990. (Project 767919 - New)

$22,000.00 - Universities Space Research Association, Houston, Texas, Permanently Manned Autonomous Space Oasis, Department of Aeronautical and Astronautical Engineering (H. A. Oz and R. K. Yedavalli), 15 August 1989 through 15 June 1990. (Project 767918 - New)

$17,396.00 - Grayson Foundation, Inc., Lexington, Kentucky, Effects of Percutaneous Tendon Splitting in Acute Equine Tendinitis, Department of Veterinary Clinical Sciences (L. R. Bramlage), 1 September 1989 through 31 August 1990. (Project 768098 - New)

$15,000.00 - Deafness Research Foundation, New York, New York, Effect of Auditory Deprivation on the Development of a Vocal-Control Nucleus in a Songbird, Department of Zoology (S. F. Volman), 1 January 1990 through 31 December 1990. (Project 768089 - New)

$15,000.00 - Institute of Noetic Sciences, Sausalito, California, A Cognitive-Behavioral Stress-Management Intervention with Hospital Nurses: Psychological, Immunological, and Health Consequences, Department of Microbiology and Immunology (M. R. Glaser), 1 February 1990 through 31 January 1991. (Project 768111 - New)

$14,850.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Is Depression a Reason Some Smokers Can't Quit?, Department of Psychiatry (C. M. Churchill), 1 November 1989 through 31 October 1990. (Project 768090 - New)

$12,806.00 - American Psychological Association, Washington, D.C., Cognitive Bases of Musical Communication, Department of Psychology (M. R. Jones), 1 January 1990 through 31 July 1990. (Project 768102 - New)

$5,250.00 - Egyptian Government, Washington, D.C., Cultural and Educational Bureau -- Peace Fellowship Program, Department of Biochemistry (E. J. Behrman), 28 January 1990 through 27 June 1990. (Project 768116 - New)

$3,900.00 - L. S. B. Leakey Foundation, Pasadena, California, Ecology and Conservation of Lion-Tailed Macaques in a South Indian Rainforest, Department of Anthropology (F. E. Poirier), 1 December 1989 through 30 November 1990. (Project 768112 - New)

$3,220.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 June 1989 through 31 August 1989. (Project 765208 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$2,000.00 - National Foundation for Infectious Diseases, Bethesda, Maryland, Elastase as a Virulence Factor of Pathogenic Aspergilli: A Molecular Investigation, Department of Internal Medicine (B. C. Fox), 1 December 1989 through 30 November 1990. (Project 768074 - New)

$1,000.00 - American Foundation for Aging Research, Raleigh, North Carolina, Graduate Fellowship in Aging Research, Department of Physiological Chemistry (L. A. Horrocks and K. Wells), 1 February 1990 through 31 January 1991. (Project 768125 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $ 935,509.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$18,000.00 - from The Ohio Aerospace Institute, Brookpark, Ohio, for "OAI-Fellowship-A/A," under the direction of the Department of Aeronautical and Astronautical Engineering for the period January 1, 1990 through December 31, 1990. (529839)

$18,000.00 - from The Ohio Aerospace Institute, Brookpark, Ohio, for "OAI-Fellowship-ME," under the direction of the Department of Mechanical Engineering for the period January 1, 1990 through December 31, 1990. (529837)

$6,300.00 - from The Ohio Aerospace Institute, Brookpark, Ohio, for "Ohio Aerospace Institute - Office Support," under the direction of the Department of Mechanical Engineering for the period January 1, 1990 through December 31, 1990. (529838)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $ 42,300.00

Industry and Other Sponsored Research and Development

$30,070.00 - from 29 sponsors of 50 development projects under the direction of four departments/research areas of the College.

$30,000.00 - from various industry for associate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$25,000.00 - from various industry for memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

$21,212.00 - additional budget from General Electric, Cincinnati, Ohio, for "Advanced Engine Graphical Analysis," under the direction of the Department of Computer & Information Science for the period April 1, 1988 through December 31, 1990. (529755, Ext. 1)

$10,000.00 - from various industry for affiliate memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

$5,828.00 - additional funding from Edison Welding Institute, Columbus, Ohio, for "Significance of Local Brittle Zone Size," under the direction of the Department of Welding Engineering for the period July 1, 1989 through March 31, 1990. (529368, Ext. 1)

$5,000.00 - additional funding from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529370, Ext. 3)

$(66,264.00) - reduction in funding from NCR Corporation, Cambridge, Ohio, on the project "Investigation of Wrist Motions Contributing to Carpal Tunnel Syndrome Risk in the Design of Retail Scanners," through the Department of Industrial and System Engineering for the period March 1, 1989 through February 28, 1990. (529794)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH $ 60,846.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Neil M. Klatskin Memorial Scholarship Fund in Real Estate

The Neil M. Klatskin Memorial Scholarship Fund in Real Estate was established April 6, 1990, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Charles and Lynne Klatskin of Tenafly, New Jersey, in memory of their son, Neil M. Klatskin (B.S.Bus.Adm. '82).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarship(s) to student(s) enrolled in the College of Business who are pursuing a course of study in real estate. Preference shall be given to the out-of-state student with the third best cumulative G.P.A. Selection of the scholarship recipient(s) shall be made by the faculty of real estate, in consultation with the Dean of the College of Business and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Epsilon Sigma Phi Leadership Fund

The Epsilon Sigma Phi Leadership Fund was established April 6, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members and friends of Alpha Eta Chapter, Epsilon Sigma Phi, the professional honorary fraternity for the Cooperative Extension Service. The fund was initiated by Clarence J. Cunningham at the time of his retirement as Associate Director of the Ohio Cooperative Extension Service.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to improve the quality of educational programs offered by the Ohio Cooperative Extension Service. This support may include, but is not limited to, the funding of scholarships, grants and awards to Cooperative Extension professionals. All expenditures from this fund shall be approved by the Board of Directors of the Epsilon Sigma Phi Alpha Eta Chapter or its designee in cooperation with the Director of the Ohio Cooperative Extension Service. Should the Ohio Chapter of Epsilon Sigma Phi dissolve, funds will be administered by a committee composed of county, district and state faculty appointed by the Director of the Ohio Cooperative Extension Service or his/her designee.

It is the desire of the donors that this fund should benefit the University and the Ohio Cooperative Extension Service in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donors.

The Gerry D. Guthrie Memorial Library Fund

The Gerry D. Guthrie Memorial Library Fund was established April 6, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Gerry Guthrie's mother, Cecile L. Guthrie; his brother, George P. Guthrie, Jr.; and other family, friends and fellow employees of Gerry Guthrie at The Ohio State University Libraries.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the acquisition of library materials related to American history, to be chosen at the discretion of the Director of University Libraries.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Henry J. Barre Award for Graduate Study in Agricultural Engineering

The Henry J. Barre Award for Graduate Study in Agricultural Engineering was established April 6, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Gertrude A. Barre, James F. Barre, Jeanne Barre Sather, and friends in memory of Dr. Henry J. Barre, Professor Emeritus, College of Agriculture, Department of Agricultural Engineering.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to stimulate graduate study in agricultural engineering, with emphasis on grain drying, storage and materials handling. Expenditures from the fund shall be authorized by the chairperson of the department of agricultural engineering.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Sara P. Sprague Howser Endowed Scholarship

The Sara P. Sprague Howser Endowed Scholarship was established April 6, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from an anonymous donor.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Twenty percent (20%) of the annual income shall be added to the fund's principal. The remaining eighty percent (80%) shall be used to provide one or more scholarships (tuition and books only) to deserving students who are attending The Ohio State University, Marion Campus. Preference for awards shall be given to students of sophomore or higher rank majoring in the field of elementary education. Other criteria for selection shall include:

a) a minimum GPA of 3.0
b) financial need, worthiness of character, and overall performance
c) classification as a full-time student with 13 or more quarter hours of study each quarter throughout the academic year
Establishment of Named Funds (contd)

The Sara P. Sprague Howser Endowed Scholarship (contd)

Should the Marion Campus cease to exist, the annual income shall be used to fund such students attending The Ohio State University who have resided in Marion County, Ohio, for at least 12 consecutive years of their lives and who meet the above specified criteria. The selection of the recipients shall be made by recommendation of a committee consisting of the department chairperson for elementary education, the Marion Campus Scholarship Committee, the University Committee on Student Financial Aid, and Harry L. Dowler, Jr., trustee for the Rovena Rinker Estate, or Mr. Dowler's appointee (the Dean of the Marion Campus) in case of his unavailability or death.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donor.

* Please note that the donor has requested no publicity in regard to this gift or the establishment of the endowed fund.

The Woodford Zimmerman Memorial Scholarship Fund

The Woodford Zimmerman Memorial Scholarship Fund was established April 6, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from family and friends of Woodford Zimmerman (B.S.Ed. '55, M.A. Music '62, Ph.D., Education '69).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships in the amount of $300.00 per quarter to students twenty-five years of age or older. Students must have good academic standing and be in need of financial assistance. Preference shall be given to students at the Lima Campus of The Ohio State University. Scholarship recipients shall be chosen by the Dean of the Lima Campus, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
Change in Name of Fund

The Shih-Yuan Chen Memorial Scholarship Fund

The Shih-Yuan Michael Chen Scholarship Fund was established July 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Chen family, in memory of Dr. Michael Shih-Yuan Chen (Ph.D. '55). The name was changed April 6, 1990.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students enrolled in the College of Engineering who are from Nanjing Institute of Technology, China. If there are no applicants from Nanjing Institute of Technology, then the scholarship(s) shall be awarded to engineering students from mainland China, or, if none apply, to Chinese-American students enrolled in the College of Engineering. Scholarship recipients shall be chosen by the Dean of the College of Engineering in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Change in Description of Named Fund

The Stark County Alumni Scholars Program

The Stark County Alumni Scholars Program was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Stark County/Ohio State University Alumni Club and residents of Stark County, Ohio. The description was revised April 6, 1990.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest and occasion dictates.

Twenty percent (20%) of the annual income shall be added to the fund's principal. The remaining eighty percent (80%) of the annual income shall be used to provide scholarship support for one or more qualified first quarter freshmen enrolled at The Ohio State University. However, should it become necessary, both annual income and the fund's principal may be used to pay the in-state tuition for the first scholar (who was selected in 1988) for up to 12 quarters. Selection of the scholarship recipients shall be made by the Stark County Alumni Club and The Ohio State University Alumni Association, in consultation with the University Committee on Student Financial Aid.
April 5 and 6, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

The Stark County Alumni Scholars Program (contd)

The purpose and intent of this scholarship is set forth as follows: The recipients shall be designated "Alumni Scholars." To be eligible, a student must have attended a high school in Stark County or be a resident of Stark County. Preference shall be given to first quarter freshmen at The Ohio State University who are academically outstanding. This full tuition scholarship shall be renewable for a maximum of 12 quarters. Renewal shall depend upon the student continuing to demonstrate outstanding achievement and successful academic progress toward a degree, consistent with similar University scholarships.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

--0--

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix LXIII for a complete tabulation of bids on all projects and locator maps, page 974.)

Pressey Hall - Office of Career Development
Robinson Laboratory Renovation
Rightmire Hall Renovation - Phase II, Demolition

Pressey Hall - Office of Career Development

This project will create a 5,260 gross square foot space for the relocation of the Office of Career Development. This office will be relocated from Rightmire Hall in order to allow expansion space for the Biotechnology Center. The total project cost is $326,889.70; funding is provided from University funds. The estimated completion date is July 1990. The contracts awarded are as follows:

General Contract: Williamson Builders, Plain City, Ohio

Amount: $86,350.00

Estimate: $101,000.00

Mechanical Contract: Ro-Dan Mechanical, Columbus, Ohio

Amount: $63,300.00

Estimate: $65,000.00
April 5 and 6, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Pressey Hall - Office of Career Development (contd)

Electric Contract: Edmond's Mechanical, Dayton, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>Estimate</th>
<th>Total All Contracts</th>
<th>Contingency Allowance</th>
<th>Total Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$73,500.00</td>
<td>$75,000.00</td>
<td>$223,150.00</td>
<td>$22,315.00 (10% of construction cost)</td>
<td>$326,889.70</td>
</tr>
</tbody>
</table>

Robinson Laboratory Renovation

This first phase of the project will replace the deteriorated floor and supports in the mechanical engineering laboratory above the water tunnels in room 1030. The work is primarily structural repairs to the underfloor waterflow tanks and floor supports. The second phase of the project, to be bid in the near future, will relocate and reinstall the research vessel. The phase 1 total project cost is $167,200; funding is provided from House Bill 870. The estimated completion date is July 1990. The contract awarded is as follows:

General Contract: Waller & Lund, Columbus, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>Estimate</th>
<th>Total All Contracts</th>
<th>Contingency Allowance</th>
<th>Total Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$134,760.00</td>
<td>$137,186.00</td>
<td>$134,760.00</td>
<td>$6,740.00 (5% of construction cost)</td>
<td>$161,500.00</td>
</tr>
</tbody>
</table>

Rightmire Hall Renovation - Phase II, Demolition

This phase of the project will provide the demolition of the ground floor and first floor areas of Rightmire Hall in preparation for housing new research laboratories for the Biotechnology Center. This demolition affects 59,000 gross square feet and includes all interior non-bearing walls, ceilings, stepped concrete floors in lecture halls and all HVAC, plumbing and electrical lines and systems not scheduled for reuse. This project also includes the purchase and installation of structural steel and metal floor deck to infill portions of the first floor where lecture halls were removed. The total Phase II demolition cost is $333,560; funding is available from University funds. The estimated completion date is July 1990. The contract awarded is as follows:
April 5 and 6, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Rightmire Hall Renovation - Phase II, Demolition (contd)

General Contract: Cody Zeigler, Summit Station, Ohio

Amount: $307,000.00

Estimate: $549,480.00

Total All Contracts: $333,560.00

Contingency Allowance: $24,560.00 (8% of construction cost)

Total Project Cost: $333,560.00

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-105

PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT

ROBINSON LABORATORY RENOVATION

RIGHTMIRE HALL RENOVATION - PHASE II, DEMOLITION

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Pressey Hall - Office of Career Development, Robinson Laboratory Renovation, and Rightmire Hall Renovation - Phase II, Demolition projects.

WHEREAS resolutions adopted by the Board of Trustees on November 3, 1989, and February 2, 1990, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Pressey Hall - Office of Career Development and Rightmire Hall Renovation - Phase II, Demolition; and

WHEREAS a resolution adopted by the Board of Trustees on July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following project: Robinson Laboratory Renovation:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the Pressey Hall - Office of Career Development, Robinson Laboratory Renovation, and Rightmire Hall Renovation - Phase II, Demolition projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
April 5 and 6, 1990 meeting, Board of Trustees

AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS, SERIES 1990 OF THE OHIO STATE UNIVERSITY

Resolution No. 90-106

Synopsis: The Fiscal Affairs Committee recommended the authorization, issuance and sale of General Receipts Bonds, Series 1990 (the "Series 1990 Bonds"), in a principal amount determined as provided herein, for the purpose of (i) replacement, renovation and modernization of the transformers/electrical system; (ii) restoration of Ohio Stadium; (iii) construction of a North Facility maintenance building; (iv) renovation and modernization of the St. John Arena roof; (v) replacement of the Ohio Stadium turf; (vi) acquisition and installation of the St. John Arena scoreboard; (vii) development of athletic intramural fields; (viii) construction of an addition to the Arps parking ramp; (ix) construction and remodeling of the main bookstore; (x) renovation and modernization of the water purification system and McCracken Power Plant; (xi) renovation and remodeling of the Ohio Unions; (xii) renovation and remodeling of the Faculty Club; (xiii) construction of the Biotechnology Research Center; (xiv) construction of a Magnetic Resonance Imaging Facility; (xv) construction of a food freezer addition to the Stores facility; (xvi) repairing and upgrading two floors of the Morrill Tower Residence Hall; and (xvii) replacing windows in the North Residence Halls; paying costs and expenses associated with the issuance of the Series 1990 Bonds; authorizing a Fourth Supplemental Trust Indenture to secure the payment of Bond Service Charges on the Series 1990 Bonds; and for related purposes.

WHEREAS pursuant to Sections 3345.11 and 3345.12 of the Ohio Revised Code (the "Act"), as enacted under authority of the Constitution of Ohio, particularly Section 21 of Article VIII thereof, The Ohio State University (the "University"), a state university of the State of Ohio (the "State") created and existing under Chapter 3335 of the Ohio Revised Code, is authorized and empowered, among other things, (a) to issue, as provided herein, Bonds (as defined in the Original Indenture (as hereinafter defined)) of the University to pay the costs of certain capital facilities defined as "auxiliary facilities" in Section 3345.12 of the Ohio Revised Code (and herein called "University Facilities") and to refund, fund or retire bonds and other obligations previously issued for such purpose; (b) to pledge to the payment of the Bonds all or a specified part of the gross amount of the General Receipts of the University (as defined in the Original Indenture) in priority to all other expenses, claims or payments; (c) to covenant, as herein provided, that the University will make, fix, adjust and collect the fees, rates, rentals, charges and other items comprising General Receipts to produce General Receipts sufficient at all times to meet Bond Service Charges (as defined in the Original Indenture) on the Bonds, to establish and to maintain the required reserves and meet other requirements herein provided; and (d) to provide for a trust indenture and to make further provisions for securing the payment of the Bond Service Charges; and

WHEREAS the University, by resolution adopted by its Board of Trustees (the "Board") on November 1, 1985 (the "Series 1985 A Bond Resolution") and by a Trust Indenture (the "Original Indenture"), dated as of November 15, 1985, between the University and The Huntington National Bank, as Trustee (the "Trustee"), has provided for the issuance from time to time of General Receipts Bonds of the University, with each such issue to be authorized by a Series Resolution (as defined in the Original Indenture) adopted by the Board pursuant thereto; and

WHEREAS the University has heretofore issued pursuant to the Series 1985 A Bond Resolution and the Original Indenture, the $27,680,000 The Ohio State University General Receipts Refunding Bonds, Series 1985 A, dated as of November 15, 1985 (the "Series 1985 A Bonds") ($20,890,000 principal amount outstanding); and
April 5 and 6, 1990 meeting, Board of Trustees

AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS, SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

WHEREAS the University has heretofore issued pursuant to the Series 1985 A Bond Resolution, the Series 1985 B Bond Resolution, adopted by the Board on December 6, 1985 (the "Series 1985 B Bond Resolution"), the Original Indenture and the First Supplemental Indenture, dated as of December 30, 1985 (the "First Supplemental Indenture"), between the University and the Trustee, as amended by the Amendment Agreement, dated as of December 1, 1986, between the University and the Trustee, the $42,500,000 The Ohio State University Variable Rate Demand General Receipts Bonds, Series 1985 B, initially dated as of December 30, 1985 (the "Series 1985 B Bonds") ($29,900,000 principal amount outstanding); and

WHEREAS the University has heretofore issued pursuant to a resolution adopted by its Board of Trustees on July 11, 1986 (the "Series 1986 A Bond Resolution"), the Original Indenture and the Second Supplemental Trust Indenture, dated as of July 15, 1986 (the "Second Supplemental Indenture"), between the University and the Trustee, the $45,000,000 The Ohio State University General Receipts Bonds, Series 1986 A, dated as of July 15, 1986 (the "Series 1986 A Bonds") ($39,125,000 principal amount outstanding); and

WHEREAS the University has heretofore issued pursuant to a resolution adopted by its Board of Trustees on July 11, 1986 (the "Series 1986 B Bond Resolution"), the Original Indenture and the Amended Third Supplemental Trust Indenture, dated as of August 1, 1986 (the "Third Supplemental Indenture"), between the University and the Trustee, the $45,000,000 The Ohio State University Variable Rate Demand General Receipts Bonds, Series 1986 B, initially dated as of August 14, 1986 (the "Series 1986 B Bonds") ($43,700,000 principal amount outstanding); and

WHEREAS the Board has determined that it is in the best interests of the University to authorize the issuance of The Ohio State University General Receipts Bonds, Series 1990 (the "Series 1990 Bonds") in a principal amount not to exceed Fifty-Six Million Dollars ($56,000,000), for the purpose of paying or reimbursing costs of the 1990 Project and paying costs and expenses associated with the issuance of the Series 1990 Bonds; and

WHEREAS, the University desires to make provision for the issuance of the Series 1990 Bonds and for the payment of the Bond Service Charges thereon and the securing thereof by this Resolution and a Fourth Supplemental Trust Indenture (the "Fourth Supplemental Indenture") herein authorized:

NOW THEREFORE

BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE OHIO STATE UNIVERSITY, as follows:

Section 1. Definitions and Interpretations. All words and terms defined in the Original Indenture and all interpretations therein provided shall have in this Resolution the same meanings, respectively, and be subject to the same interpretations as therein provided or used, unless the context or use clearly indicates another or different meaning or intent, except that this Resolution, together with the Certificate of Award provided for in Section 3 hereof, is sometimes herein called and may be known as the "Series 1990 Bond Resolution." The Bonds authorized by this Resolution are referred to herein and in the Fourth Supplemental Indenture as the "Series 1990 Bonds." Terms not appearing in the Original Indenture but used herein are defined as follows:
AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS, SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

"Bond proceedings" means the Series 1985 A Bond Resolution, the Original Indenture, any applicable Series Resolution, any applicable Supplemental Indenture, any applicable Certificate of Award and other resolutions and agreements and amendments of and supplements to the foregoing, or any combination thereof, authorizing or providing for the terms and conditions applicable to, or providing for the security or sale of Bonds, and the terms contained in such Bonds.

"Book Entry System" means a system under which (a) a physical Series 1990 Bond certificate in fully registered form is issued for each maturity of Series 1990 Bonds only to a Depository or its nominee as registered owner, with the Series 1990 Bond held by and "immobilized" in the custody of the Depository, and (b) a book entry record, maintained by and the responsibility of others than the University, is the record that identifies, and records the transfer of the interests of, the owners of book entry interests in such Series 1990 Bonds.

"Certificate of Award" means the Certificate of Award authorized pursuant to Section 3 of this Resolution.

"Code" means the Internal Revenue Code of 1986, as amended, and the applicable income tax regulations thereunder.

"1990 Construction Fund" means the fund held by the Trustee created pursuant to Section 5 of this Resolution and funded with the proceeds of the Series 1990 Bonds.

"Contract of Purchase" means the Contract of Purchase between the Original Purchasers and the University, authorized pursuant to Section 3 hereof.

"Depository" means any securities depository that is a clearing agency under federal law operating and maintaining, with its participants or otherwise, a Book Entry System to record ownership of book entry interests in obligations, and includes and means initially as to the Series 1990 Bonds, The Depository Trust Company (a limited purpose trust company), New York, New York.

"Mandatory sinking fund requirements" means amounts required by this Resolution to be deposited into the Bond Fund in any year for the purpose of retiring principal maturities of the Series 1990 Bonds which by the terms of such Bonds are due and payable, if not called for prior redemption, in any subsequent fiscal year of the University.

"Official Statement" means, as to the Series 1990 Bonds, the Official Statement including, without limitation, the Preliminary Official Statement, relating to the original issuance of the Series 1990 Bonds, authorized pursuant to Section 3 hereof.


"Paying Agent" means the Trustee.
April 5 and 6, 1990 meeting, Board of Trustees

AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS,
SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

"1990 Project" means (i) replacement, renovation and modernization of the transformers/electrical system; (ii) restoration of Ohio Stadium; (iii) construction of a North Facility maintenance building; (iv) renovation and modernization of the St. John Arena roof; (v) replacement of the Ohio Stadium turf; (vi) acquisition and installation of the St. John Arena scoreboard; (vii) development of athletic intramural fields; (viii) construction of an addition to the Arps parking ramp; (ix) construction and remodeling of the main bookstore; (x) renovation and modernization of the water purification system and McCracken Power Plant; (xi) renovation and remodeling of the Ohio Unions; (xii) renovation and remodeling of the Faculty Club; (xiii) construction of the Biotechnology Research Center; (xiv) construction of a Magnetic Resonance Imaging Facility; (xv) construction of a food freezer addition to the Stores facility; (xvi) repairing and upgrading two floors of the Morrill Tower Residence Hall; and (xvii) replacing windows in the North Residence Halls, each of (i) through (xvii) constituting a University Facility.

"Series 1990 Bond Resolution", or "this Resolution" as used herein, means this Resolution, as the same may be amended from time to time in accordance with the provisions of the Indenture.


"Trustee" means The Huntington National Bank, Columbus, Ohio, and any successor Trustee as determined or designated under or pursuant to the Original Indenture.

Any reference herein to the University, the Board, or to any members or officers thereof or to other public boards, commissions, departments, institutions, agencies, bodies, entities or officers, shall include those which succeed to their functions, duties or responsibilities pursuant to or by operation of law or who are lawfully performing their functions. Any reference to a section or provision of the Ohio Revised Code or to the laws of Ohio shall include such section or provision and such laws as from time to time amended, modified, revised, supplemented, or superseded, provided that no such amendment, modification, revision, supplementation, or supersession shall alter the obligation to pay the Bond Service Charges in the amount and manner, at the times, and from the sources provided in this Resolution, the Original Indenture and the Fourth Supplemental Indenture, except as otherwise herein permitted.

Unless the context shall otherwise indicate, words importing the singular number shall include the plural number, and vice versa, and the terms "hereof," "herein," "hereby," "hereto," "hereunder," and similar terms, mean this Resolution.

Section 2. Authorization; Terms; Pledge; and Covenant.

(a) Authorization. The Series 1990 Bonds shall be designated and known as The Ohio State University General Receipts Bonds, Series 1990 (the "Series 1990 Bonds"), and shall be issued pursuant to and as authorized by the Act, Section 2i of Article VIII of the Ohio Constitution, the Series 1985 A Bond Resolution, this Resolution, the Original Indenture and the Fourth Supplemental Indenture for the purposes of financing costs of the University Facilities comprising the 1990 Project and paying costs and expenses incidental to the issuance of the Series 1990 Bonds.

(b) Form and Numbering. The Series 1990 Bonds shall be issued only as fully registered bonds. The Series 1990 Bonds shall be numbered as determined by the Trustee.
April 5 and 6, 1990 meeting, Board of Trustees

AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS,
SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

(c) Denominations and Dates. The Series 1990 Bonds shall be in denominations of $5,000 and integral multiples thereof and shall be dated April 1, 1990.

(d) Principal Amount. The aggregate principal amount of the Series 1990 Bonds shall be specified in the Certificate of Award. The aggregate principal amount of the Series 1990 Bonds shall not exceed Fifty-Six Million Dollars ($56,000,000).

(e) Delivery and Execution. The Treasurer (as defined in the Original Indenture) is hereby authorized to make the necessary arrangements with the Original Purchasers to establish the date, location, procedures and conditions for the delivery of the Series 1990 Bonds to the Original Purchasers and to take all steps as necessary to effect due execution, authentication and delivery of the Series 1990 Bonds to the Original Purchasers under the terms of this Resolution. The Series 1990 Bonds shall be signed by the Chairman of the Board (the “Chairman”) and the Treasurer in their official capacities (provided that both of the signatures may be facsimiles) and shall bear the corporate seal of the University or a facsimile thereof.

(f) Interest and Maturities.

(i) The Series 1990 Bonds shall bear interest on their unpaid principal amounts, payable semi-annually on June 1 and December 1 (the "Interest Payment Dates"), beginning December 1, 1990, at the percentage rate or rates per annum set forth in the Certificate of Award (established pursuant to Section 3 hereof). Such rate or rates shall in no event produce an average interest rate for the Series 1990 Bonds in excess of nine percent (9%) per annum.

(ii) The Series 1990 Bonds shall mature not later than December 1, 2010 and in such annual amount or amounts as are provided for in the Certificate of Award.

(iii) Any mandatory redemption of Series 1990 Bonds of certain maturities prior to maturity, pursuant to any mandatory sinking fund requirements, shall be as provided in the Certificate of Award. Notice of call for mandatory sinking fund redemption of the Series 1990 Bonds shall be given in the manner provided in the Original Indenture.

(iv) Certain maturities of the Series 1990 Bonds, if so provided for in the Certificate of Award, shall be subject to optional redemption at the option of the University prior to stated maturity, in whole or in part, but if in part, only in installments of $5,000 principal amount of such Bond or integral multiples thereof, in accordance with the terms, conditions, redemption prices and on the dates set forth in the Certificate of Award. Notice of call for and other terms and provisions governing redemption of the Series 1990 Bonds shall be given in the manner provided in the Original Indenture. At no time shall the redemption price on any Series 1990 Bond, exclusive of accrued interest, exceed one hundred and two percent (102%) of the principal amount of such Bond to be redeemed.

(g) Security. As provided in the Original Indenture and the Fourth Supplemental Indenture, there is hereby pledged to the security of the Series 1990 Bonds and for the payment of the Bond Service Charges on the Series 1990 Bonds, (i) the gross amount of General Receipts of the University (subject to the provisions for the partial release of a pledge of General Receipts contained in Section 4.11 of the Original Indenture) and (ii) the monies contained in the Special Funds (as defined in the Original Indenture and clarified in the Fourth Supplemental Indenture), but excluding the Bond Reserve Fund. Anything else to the contrary in the Original Indenture, the Series 1985 A Bond Resolution, the Fourth Supplemental Indenture or this Resolution
April 5 and 6, 1990 meeting, Board of Trustees

**AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS, SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)**

notwithstanding, the Series 1990 Bonds shall not have access to or any claim upon the Bond Reserve Fund.

The pledge of General Receipts in the immediately preceding paragraph shall be on a parity with expenses, claims and payments relating to other Parity Obligations (as defined in the Original Indenture) and in priority to all other expenses, claims and payments of the University. In accordance with the Act, all General Receipts or portions thereof are immediately subject to the lien of the pledge upon receipt thereof by the University, and such pledge creates a perfected security interest without necessity for prior separation, physical delivery, filing or recording or further act.

For the further security of the Series 1990 Bonds, and any Additional Bonds (as defined in the Original Indenture), the University hereby covenants with the bondholders and the Trustee that so long as any Series 1990 Bonds or Additional Bonds are outstanding, the University shall fix, make, adjust and collect fees, rates, rentals, charges, and other items of General Receipts, as will produce at all times General Receipts sufficient (i) to pay Bond Service Charges when due, (ii) together with other monies lawfully available therefor, to pay all costs and expenses required to be paid under the Bond proceedings, and (iii) together with other monies lawfully available therefor, to pay all other costs and expenses necessary for the proper maintenance and successful and continuous operation of the University.

**Payment, Places of Payment and Paying Agents.** The principal of and any redemption premium on any Series 1990 Bond when due shall be payable to the registered holder upon presentation and surrender thereof at the principal corporate trust office of the Trustee. Interest on Series 1990 Bonds shall be payable by check or draft mailed by the Trustee as provided in the Original Indenture; provided, however, that interest on Series 1990 Bonds aggregating $1,000,000 or more in principal amount registered in the name of a single holder shall be paid by wire transfer in immediately available funds to such account, if any, as such holder directs in writing to the Trustee at least ten (10) days prior to any Interest Payment Date, such payment by wire transfer pursuant to that direction continuing in effect as to subsequent Interest Payment Dates until such time as the holder notifies the Trustee to the contrary or until such time as such holder ceases to be a holder of the requisite principal amount of Series 1990 Bonds.

**(i) Book Entry.** The Series 1990 Bonds shall only be issued to a Depository for holding in a Book Entry System. Those Series 1990 Bonds shall be registered in the name of the Depository or its nominee, as registered owner, and immobilized in the custody of the Depository; and shall not be transferable or exchangeable, except for transfer to another Depository or to another nominee of a Depository, without further action by the Issuer. There shall be a single Series 1990 Bond for each maturity of Series 1990 Bonds.

If any Depository determines not to continue to act as a Depository for the Series 1990 Bonds for holding in a Book Entry System, the University may attempt to have established a securities depository/Book Entry System relationship with another qualified Depository. If the University does not or is unable to do so, the University, after making provision for notification of the owners of book entry interests by appropriate notice to the then Depository and any other arrangements it deems necessary, shall permit the withdrawal of the Series 1990 Bonds from the Depository, and authenticate and deliver the Series 1990 Bond certificates, in fully registered form to the assigns of the Depository or its nominee (if such Bond was held by a nominee), all at the cost and expense (including costs of printing or otherwise preparing and delivering replacement Series 1990 Bonds) of the University. Series 1990 Bond certificates authenticated and delivered pursuant to this paragraph shall be in the denomination of $5,000 or any integral
multiple thereof but not exceeding the principal amount of the outstanding Series 1990 Bonds maturing on any one date.

Section 3. **Contract of Purchase; Certificate of Award; Official Statement.** The Series 1990 Bonds are sold and awarded to the Original Purchasers in accordance with the Contract of Purchase at the purchase price (not less than ninety-nine percent (99%) of the aggregate principal amount of the Series 1990 Bonds, plus accrued interest) provided in the Certificate of Award. The form of Contract of Purchase now on file with the Secretary of the Board is hereby approved, together with any changes therein and completions thereof which are not inconsistent with this Resolution and not substantially adverse to the University, and as are permitted by the Act and approved on behalf of the University by the Chairman or the Treasurer. The approval on behalf of the University of those changes and completions by the Chairman or the Treasurer, and the status of those changes as not substantially adverse to the University, shall be conclusively evidenced by the execution of the Contract of Purchase on behalf of the University by the Chairman or the Treasurer. It is determined hereby that the purchase price and the manner of sale and the terms of the Series 1990 Bonds, as provided in this Resolution, are consistent with all legal requirements and will carry out the public purposes of the Act.

The sale and award of the Series 1990 Bonds shall be further evidenced by the Certificate of Award. The Certificate of Award is hereby authorized and shall be executed by the Chairman or the Treasurer. The Certificate of Award shall state or confirm the aggregate principal amount of the Series 1990 Bonds, the purchase price of such Bonds, the interest rate or rates with respect to each maturity of such Bonds, the annual principal amount or amounts of such Bonds becoming due, the maturity dates, any mandatory sinking fund requirements and the optional redemption provisions, all as determined in accordance with the provisions of this Resolution and the Contract of Purchase. The Certificate of Award shall also contain such other data or provisions as the Chairman or the Treasurer determines are appropriate or necessary, and as are consistent with this Resolution, the Original Indenture, the Fourth Supplemental Indenture and the Contract of Purchase. The Certificate of Award shall be deemed a part of this Resolution in connection with the authorization, issuance and sale of the Series 1990 Bonds.

The use and distribution of the Preliminary Official Statement and the Official Statement relating to the Series 1990 Bonds by the Original Purchasers is hereby approved and authorized. The Official Statement, substantially in the form of the Preliminary Official Statement now on file with the Secretary of the Board, shall be executed by the Chairman or the Treasurer in his official capacity on behalf of the University with any modifications, changes and supplements necessary or desirable for the purposes thereof which the Chairman or the Treasurer shall approve. The Board has not confirmed, and assumes no responsibility for, the accuracy, sufficiency or fairness of the statements in the Preliminary Official Statement or the final Official Statement under the caption "UNDERWRITING."

Section 4. **Allocation of Proceeds.** The proceeds from the sale of the Series 1990 Bonds, including any accrued interest, shall be allocated, deposited and applied as follows:

(i) To the Bond Fund, accrued interest received on the sale of the Series 1990 Bonds;

(ii) To the 1990 Construction Fund, created pursuant to Section 5 of this Resolution, the entire remaining amount of the proceeds, to be applied to the purposes of that Fund, including transfers from that Fund authorized by the Act to pay costs and expenses associated with the issuance of the Series 1990 Bonds.
AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS, 
SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

Section 5. 1990 Construction Fund. There is hereby created by the University and ordered maintained a separate fund with the Trustee designated the "1990 Construction Fund." The 1990 Construction Fund shall be funded from the proceeds of the sale of the Series 1990 Bonds (the "Sale Proceeds"). The Sale Proceeds shall be used for the payment or reimbursement of all costs and expenses relating to the 1990 Project, and costs and expenses associated with the issuance of the Series 1990 Bonds. Investment earnings on the Sale Proceeds may, at the direction of the University, be transferred to the Bond Service Account in the Bond Fund (both terms as defined in the Original Indenture) to be used to pay Bond Service Charges on the Series 1990 Bonds. Payments from the 1990 Construction Fund for the purpose of paying costs and expenses relating to the 1990 Project and Additional Projects (as hereinafter defined) shall be made in accordance with the procedures provided in Section 9 of the Series 1985 A Bond Resolution.

Monies remaining in the 1990 Construction Fund (including investment earnings thereon which have not been used to pay Bond Service Charges, as described in the preceding paragraph) after receipt by the Trustee of a certificate of completion (as described in Section 9 of the Series 1985 A Bond Resolution) and after payment or provision for payment in full of costs and expenses relating to the 1990 Project, shall, at the direction of the University, be applied by the Trustee to fund additional projects constituting University Facilities (the "Additional Projects").

The completion of the acquisition, construction, furnishing, equipping and improving of the Additional Projects shall be evidenced by the filing with the Trustee of a certification in writing signed by the Treasurer, which certification shall state that all costs and expenses incurred in connection with the acquisition, construction, furnishing, equipping and improving of the Additional Projects and payable out of the 1990 Construction Fund have been paid and discharged, except for such costs and expenses which the Treasurer certifies are not then due and payable.

Section 6. Application of Bond Proceeds. The University covenants that the use of the proceeds of the Series 1990 Bonds will be restricted in such manner and to such extent, if any, as may be necessary, after taking into account reasonable expectations at the time of delivery of and payment for the Series 1990 Bonds, so that the Series 1990 Bonds will not constitute "arbitrage bonds" under Section 103(c) of the Internal Revenue Code of 1986, as amended (the "Code"). The Treasurer of the University, or any other officer having responsibility with respect to the issuance of the Series 1990 Bonds, alone or in conjunction with any other officer or employee of or consultant to the University, will give an appropriate certificate of the University for inclusion in the transcript of proceedings for the Series 1990 Bonds setting forth the reasonable expectations of the University regarding the amount and use of all those proceeds and the facts and estimates on which they are based, all as of the date of original delivery of and payment for the Series 1990 Bonds.

The University further covenants that it will take all actions required to maintain the exemption from federal income tax of interest on the Series 1990 Bonds, and will not take any actions which would adversely affect such exemption under the provisions of federal tax laws or applicable regulations that apply to the Series 1990 Bonds; and the Chairman or the Treasurer and other appropriate officers are hereby authorized to take such actions and give such certifications as may be appropriate to assure such tax exemption of interest on the Series 1990 Bonds.
AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS,
SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

Section 7. Penalty in Lieu of Rebate.

(a) Construction Bonds. The University hereby represents that at least seventy-five percent (75%) of the net proceeds (as hereinafter defined) of the Series 1990 Bonds are to be used for construction expenditures with respect to property which is to be owned by a governmental unit in accordance with the provisions of Section 148(f)(4)(B)(iv) of the Code.

(b) Election of Rebate Penalty. The University hereby elects the application of subclause (V) of Section 148(f)(4)(B)(iv) of the Code which provides for the payment of a penalty in lieu of any rebate payments which would otherwise be due in connection with the investment of the proceeds of the Series 1990 Bonds. As a result of this election, the requirements of paragraph 2 of Section 148(f) of the Code shall be treated as met if the University (i) pays the penalty under paragraph (7) of Section 148(f) of the Code or (ii) pays a penalty with respect to the close of each six month period after the date the Series 1990 Bonds are issued equal to one and one-half percent (1 1/2%) of the amount of the net proceeds of the issue which, as of the close of such period, are not spent as required by subclause (II) of Section 148(f)(4)(B)(iv) of the Code. Subclause (II) of Section 148(f)(4)(B)(iv) of the Code requires the net proceeds of the Series 1990 Bonds to be spent for the governmental purposes of the issue within the following time periods in order to avoid the penalty described in the preceding sentence: ten percent (10%) or more of the net proceeds must be spent within the six month period beginning on the date the Series 1990 Bonds are issued, forty-five percent (45%) or more of the net proceeds must be spent within one year beginning on such date, seventy-five percent (75%) or more of the net proceeds must be spent within the eighteen month period beginning on such date, and one hundred percent (100%) of the net proceeds must be spent within the two year period beginning on such date; provided, however, one hundred percent (100%) of the net proceeds shall be deemed to be spent within such two year period if all of the net proceeds are spent within three years from the date the Series 1990 Bonds are issued and if one hundred percent (100%) would have been spent in such two year period but for a reasonable retainage (not exceeding five percent (5%) of the net proceeds to the Series 1990 Bonds). For the purposes of the preceding sentence, the term "net proceeds" includes investment proceeds earned before the close of the period involved on the investment of the sale proceeds of the issue. The University hereby acknowledges that the election pursuant to this paragraph (b) is irrevocable.

(c) Compliance with Obligations. The obligations of the University under this Section 7 may change from time to time to reflect changes in the law; provided, however, prior to deviating from the provisions of this paragraph, the University shall obtain an opinion of Bond Counsel that any such deviation will not cause the interest on the Series 1990 Bonds to be includable in gross income for federal income tax purposes. The Trustee shall keep all records as are necessary and proper in connection with the requirements of this Section 7.

Section 8. Further Covenants. In addition to the covenants elsewhere contained herein, the University further covenants as provided in Section 13 of the Series 1985 A Bond Resolution, which covenants are incorporated herein as if fully set forth herein.

Section 9. Fourth Supplemental Indenture. In order to better secure the payment of the Bond Service Charges as the same shall become due and payable, the Chairman, the President of the University, the Secretary of the Board and the Treasurer, or any one or more of them, are authorized and directed to execute, acknowledge and deliver to the Trustee, in the name and on behalf of the University and pursuant to the Indenture, the Fourth Supplemental Indenture, in substantially the form submitted to this Board and hereby approved, with such changes therein as are not substantially adverse to the University and as may be permitted by the Act and approved by the officers executing the same on behalf of the University. The Fourth Supplemental
April 5 and 6, 1990 meeting, Board of Trustees

AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS BONDS,
SERIES 1990 OF THE OHIO STATE UNIVERSITY (contd)

Indenture shall also include the form of the Series 1990 Bonds. The execution of such document by any of the officers shall conclusively evidence that the officers and the Board approve such changes and that such changes are not substantially adverse to the University. Such officers are each further authorized to execute and deliver on behalf of the University such other certificates, documents and instruments as are necessary in connection with the acts authorized by this Resolution.

Section 10. Text of Resolution. The text of this Resolution authorizing the issuance and sale of the Series 1990 Bonds and related acts by the University may be changed for the purpose of curing any ambiguity, inconsistency or formal defect or omission in this Resolution or in respect of this Resolution as it relates to the Indenture, the Fourth Supplemental Indenture, the Certificate of Award, the Form of Bond, the Contract of Purchase or the Official Statement. Such changes shall be subject to the approval of any one of the officers (referred to in Section 8 above) as being changes not substantially adverse to the University or contrary to the true intent and meaning hereof and the approval by any one of such officers shall conclusively evidence that such changes are not substantially adverse to the University. Such changes must also be acceptable to Bond Counsel (as defined in the Original Indenture).

Section 11. Open Meeting Determination. It is found and determined that all formal actions of the Board concerning and relating to the adoption of this Resolution were adopted in an open meeting of the Board, and that all deliberations of the Board and of any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Revised Code.

Section 12. Effective Date. This Resolution shall take effect and be in force immediately upon its adoption. Reference shall be made to the Original Indenture and the Fourth Supplemental Indenture concerning matters not specifically addressed in this Resolution.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Thereupon the Board adjourned to meet Wednesday, May 2 and Thursday, May 3, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

John W. Berry
Chairman
APPENDIX LX

THE OHIO STATE UNIVERSITY
CAPITAL PLAN

Presented to the Board of Trustees April 6, 1990
(See page 886)
THE OHIO STATE UNIVERSITY
1991-92 CAPITAL PLAN
CAPITAL REQUEST VS ACTUAL APPROPRIATIONS

<table>
<thead>
<tr>
<th>PROJECTS</th>
<th>OHIO STATE'S CAPITAL REQUEST</th>
<th>APPROPRIATIONS* (HB 808)</th>
</tr>
</thead>
<tbody>
<tr>
<td>REQUESTED PROJECTS:</td>
<td>------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>BASIC RENOVATIONS (COLUMBUS CAMPUS)</td>
<td>$15,473,700</td>
<td>13,449,000</td>
</tr>
<tr>
<td>SUPPLEMENTAL RENOVATIONS (COLUMBUS CAMPUS)</td>
<td>8,985,000</td>
<td>0</td>
</tr>
<tr>
<td>REGIONAL CAMPUSES RENOVATIONS</td>
<td>1,200,000</td>
<td>1,382,000</td>
</tr>
<tr>
<td>ATI RENOVATIONS</td>
<td>399,900</td>
<td>341,000</td>
</tr>
<tr>
<td>OARDC RENOVATIONS</td>
<td>1,700,000</td>
<td>1,166,000</td>
</tr>
<tr>
<td>BROWN HALL ANNEX REPL - PHASE II</td>
<td>10,000,000</td>
<td>7,010,000</td>
</tr>
<tr>
<td>EQUITHE CENTER</td>
<td>4,000,000</td>
<td>4,272,000</td>
</tr>
<tr>
<td>GREENE LARG ADDITION</td>
<td>18,900,000</td>
<td>20,449,000</td>
</tr>
<tr>
<td>MENDENHALL RENEWAL</td>
<td>13,000,000</td>
<td>10,244,000</td>
</tr>
<tr>
<td>SMITH STATION RENOVATION</td>
<td>1,500,000</td>
<td>0</td>
</tr>
<tr>
<td>B&amp;Z BLDG ADDITION &amp; RENOVATION</td>
<td>4,100,000</td>
<td>0</td>
</tr>
<tr>
<td>MCPHERSONN LAB RENOVATION</td>
<td>1,000,000</td>
<td>0</td>
</tr>
<tr>
<td>LAW BUILDING ADDITION AND RENOVATION</td>
<td>6,950,000</td>
<td>7,000,000</td>
</tr>
<tr>
<td>RIGHTMIRE HLL RENOVING (BIOTECH)</td>
<td>10,000,000</td>
<td>0</td>
</tr>
<tr>
<td>SISSON HALL RENOVATION</td>
<td>2,500,000</td>
<td>0</td>
</tr>
<tr>
<td>CALDWELL LAB RENOVING</td>
<td>2,300,000</td>
<td>0</td>
</tr>
<tr>
<td>HEALTH SCIENCE LIBRARY RENOVATION</td>
<td>4,700,000</td>
<td>0</td>
</tr>
<tr>
<td>RESOURCE CONS &amp; REOCV LAB (ENV IR HLTH)</td>
<td>1,450,000</td>
<td>0</td>
</tr>
<tr>
<td>ASBESTOS REMOVAL (BEYOND FORMULA DISTRIBUTION)</td>
<td>2,000,000</td>
<td>0</td>
</tr>
<tr>
<td>HEALTH CTR ACCESS RD PHASE I, II &amp; III</td>
<td>4,900,000</td>
<td>0</td>
</tr>
<tr>
<td>CAMPBELL HALL ADDITION</td>
<td>1,500,000</td>
<td>0</td>
</tr>
<tr>
<td>LORD HALL REPLACEMENT (PHYSICS)</td>
<td>41,400,000</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL NEW REQUESTED APPROPRIATIONS</td>
<td>$157,068,600</td>
<td>65,313,000</td>
</tr>
</tbody>
</table>

REQUESTED TRANSFER:

| GREENHOUSE MODERNIZATION**                    | $4,098,183                   | 4,098,183                |

OTHER APPROPRIATIONS:

| PIKE COUNTY AGRI RESEARCH/EXTENSION EDUC CTR  | 0                            | 250,000                  |
| OHIO EDUC BROADCAST BUILDING ADDITION         | 0                            | 150,000                  |
| PEDIATRICS EDUCATION FACILITY, CHILDREN'S HOSP| 0                            | 13,000,000               |
| THURBER CENTER FOR THE LITERARY ARTS          | 0                            | 500,000                  |
| RENOVATION OF CRANSTON FACILITY               | 0                            | 1,700,000                |
| FRANKLIN CONSERVATORY IMPROVEMENTS            | 0                            | 7,200,000                |
| POULTRY RESEARCH FACILITY-OARDC               | 0                            | 200,000                  |
| HORSE AND FARM MANAGEMENT FACILITY-ATI        | 0                            | 300,000                  |
| TOTAL OTHER APPROPRIATIONS                    | $0                           | 23,300,000               |

TOTAL CAPITAL APPROPRIATIONS                  | $162,068,783                 | 92,711,183               |

* JUNE 1989 ESTIMATES
** ORIGINAL APPROPRIATION FOR HAGERTY HALL RENOVATION IN H.B. 798. 1985-86
<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational TV/Radio Equipment</td>
<td>$2,372,895</td>
</tr>
<tr>
<td>Asbestos Abatement</td>
<td>$7,000,000</td>
</tr>
<tr>
<td>Instructional &amp; Data Processing Equipment</td>
<td>$43,200,000</td>
</tr>
<tr>
<td>Ohio Library Information System – Phase I</td>
<td>$6,914,000</td>
</tr>
<tr>
<td>Supercomputer Mass Storage System</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Ohio Aerospace Institute</td>
<td>$10,475,000</td>
</tr>
<tr>
<td>Research Facility Investment Loans &amp; Grants</td>
<td>$20,000,000</td>
</tr>
<tr>
<td>Higher Education Child Care Facilities</td>
<td>$500,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$92,461,895</strong></td>
</tr>
</tbody>
</table>
### Projects

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Renovations (Columbus Campus)</td>
<td>$44,421.1</td>
<td>$15,475.7</td>
<td>$15,475.7</td>
</tr>
<tr>
<td>Supplemental Renovations (Columbus Campus)</td>
<td>$26,985.0</td>
<td>$9,000.0</td>
<td>$9,000.0</td>
</tr>
<tr>
<td>Regional Campuses Renovations</td>
<td>$3,600.0</td>
<td>$1,200.0</td>
<td>$1,200.0</td>
</tr>
<tr>
<td>ATI Renovations</td>
<td>$1,199.7</td>
<td>$399.9</td>
<td>$399.9</td>
</tr>
<tr>
<td>OARDC Renovations</td>
<td>$4,620.0</td>
<td>$1,700.0</td>
<td>$1,525.0</td>
</tr>
<tr>
<td>Brown Hall Annex Repl. - Phase II</td>
<td>$10,000.0</td>
<td>$10,000.0</td>
<td>$1,395.0</td>
</tr>
<tr>
<td>Equine Center</td>
<td>$4,000.0</td>
<td>$4,000.0</td>
<td>$4,000.0</td>
</tr>
<tr>
<td>Dreese Lab Addition</td>
<td>$18,900.0</td>
<td>$18,900.0</td>
<td>$18,900.0</td>
</tr>
<tr>
<td>Mendenhall Renovation</td>
<td>$13,000.0</td>
<td>$13,000.0</td>
<td>$13,000.0</td>
</tr>
<tr>
<td>Smith Lab Renovation</td>
<td>$25,350.0</td>
<td>$5,700.0</td>
<td>$5,700.0</td>
</tr>
<tr>
<td>U22 Block Addition &amp; Renovation</td>
<td>$26,000.0</td>
<td>$14,000.0</td>
<td>$14,000.0</td>
</tr>
<tr>
<td>Maple Hall Renovation</td>
<td>$16,650.0</td>
<td>$16,650.0</td>
<td>$16,650.0</td>
</tr>
<tr>
<td>Luit Building Addition and Renovation</td>
<td>$5,960.0</td>
<td>$5,960.0</td>
<td>$5,960.0</td>
</tr>
<tr>
<td>Rightmire Hall Remodeling (Biotech)</td>
<td>$10,000.0</td>
<td>$10,000.0</td>
<td>$10,000.0</td>
</tr>
<tr>
<td>Sisson Hall Renovation</td>
<td>$4,500.0</td>
<td>$2,500.0</td>
<td>$2,500.0</td>
</tr>
<tr>
<td>Sisson Hall Addition</td>
<td>$4,000.0</td>
<td>$4,000.0</td>
<td>$4,000.0</td>
</tr>
<tr>
<td>Caldwell Lab Remodeling</td>
<td>$6,300.0</td>
<td>$6,300.0</td>
<td>$6,300.0</td>
</tr>
<tr>
<td>Health Science Library Renovation</td>
<td>$5,700.0</td>
<td>$5,700.0</td>
<td>$5,700.0</td>
</tr>
<tr>
<td>Resource Cons. &amp; Recov. Lab (Service HLTH)</td>
<td>$1,450.0</td>
<td>$1,450.0</td>
<td>$1,450.0</td>
</tr>
<tr>
<td>Asbestos Removal (Beyond Facility Dist.)</td>
<td>$4,000.0</td>
<td>$2,000.0</td>
<td>$2,000.0</td>
</tr>
<tr>
<td>Health Ctr Access Rd Phase I, II &amp; III</td>
<td>$14,875.0</td>
<td>$4,900.0</td>
<td>$4,900.0</td>
</tr>
<tr>
<td>Campbell Hall Addition</td>
<td>$1,500.0</td>
<td>$1,500.0</td>
<td>$1,500.0</td>
</tr>
<tr>
<td>Lord Hall Replacement (Physics)</td>
<td>$85,700.0</td>
<td>$85,700.0</td>
<td>$82,700.0</td>
</tr>
<tr>
<td>New Library (Incl. Thompson Remodeling)</td>
<td>$14,350.0</td>
<td>$14,350.0</td>
<td>$14,350.0</td>
</tr>
<tr>
<td>Neil - 17th Bldg Replacement</td>
<td>$14,350.0</td>
<td>$14,350.0</td>
<td>$14,350.0</td>
</tr>
<tr>
<td>School of Architecture Building</td>
<td>$26,675.0</td>
<td>$26,675.0</td>
<td>$26,675.0</td>
</tr>
<tr>
<td>Hughes Hall Renovation</td>
<td>$5,550.0</td>
<td>$5,550.0</td>
<td>$5,550.0</td>
</tr>
<tr>
<td>Hagerby Hall Renovation</td>
<td>$12,000.0</td>
<td>$12,000.0</td>
<td>$12,000.0</td>
</tr>
<tr>
<td>Food Science Facility (Agric.)</td>
<td>$5,250.0</td>
<td>$5,250.0</td>
<td>$5,250.0</td>
</tr>
<tr>
<td>Marion Maintenance Bldg</td>
<td>$575.0</td>
<td>$575.0</td>
<td>$575.0</td>
</tr>
<tr>
<td>Animal Facility Upgrade (Dentistry)</td>
<td>$1,750.0</td>
<td>$1,750.0</td>
<td>$1,750.0</td>
</tr>
<tr>
<td>Farm Management Center - ATI</td>
<td>$640.0</td>
<td>$640.0</td>
<td>$640.0</td>
</tr>
<tr>
<td>Poultry Research Facility Replacement</td>
<td>$1,850.0</td>
<td>$1,850.0</td>
<td>$1,850.0</td>
</tr>
<tr>
<td>Poultry Research Facility (Agric.)</td>
<td>$435.0</td>
<td>$435.0</td>
<td>$435.0</td>
</tr>
<tr>
<td>Marion Campus Library Expansion</td>
<td>$3,500.0</td>
<td>$3,500.0</td>
<td>$3,500.0</td>
</tr>
<tr>
<td>Animal Facilities Replacement (Agric.)</td>
<td>$22,000.0</td>
<td>$22,000.0</td>
<td>$22,000.0</td>
</tr>
<tr>
<td>Newton Hall Addition</td>
<td>$4,350.0</td>
<td>$4,350.0</td>
<td>$4,350.0</td>
</tr>
<tr>
<td>Finley Park Addition/Improvements</td>
<td>$2,175.0</td>
<td>$2,175.0</td>
<td>$2,175.0</td>
</tr>
<tr>
<td>Waste Handling/Storage Facilities (Agric.)</td>
<td>$1,000.0</td>
<td>$1,000.0</td>
<td>$1,000.0</td>
</tr>
<tr>
<td>Bromfield Hall Addition (Mansfield)</td>
<td>$500.0</td>
<td>$500.0</td>
<td>$500.0</td>
</tr>
<tr>
<td>Hackett Hall Renovation</td>
<td>$4,200.0</td>
<td>$4,200.0</td>
<td>$4,200.0</td>
</tr>
<tr>
<td>Ramsey Hall Renovation</td>
<td>$7,500.0</td>
<td>$7,500.0</td>
<td>$7,500.0</td>
</tr>
<tr>
<td>Sisson Hall Addition</td>
<td>$7,100.0</td>
<td>$7,100.0</td>
<td>$7,100.0</td>
</tr>
<tr>
<td>Vivian Hall Renovation</td>
<td>$5,400.0</td>
<td>$5,400.0</td>
<td>$5,400.0</td>
</tr>
<tr>
<td>Stillman Hall Addition and Renovation</td>
<td>$7,210.0</td>
<td>$7,210.0</td>
<td>$7,210.0</td>
</tr>
<tr>
<td>Sullivan Hall Renovation</td>
<td>$2,000.0</td>
<td>$2,000.0</td>
<td>$2,000.0</td>
</tr>
<tr>
<td>Page Hall Renovation</td>
<td>$4,250.0</td>
<td>$4,250.0</td>
<td>$4,250.0</td>
</tr>
<tr>
<td>Western Branch Improvements (Agric.)</td>
<td>$850.0</td>
<td>$850.0</td>
<td>$850.0</td>
</tr>
<tr>
<td>Cockins/Math Block Improvements</td>
<td>$6,000.0</td>
<td>$6,000.0</td>
<td>$6,000.0</td>
</tr>
<tr>
<td>Pomeroie Hall Renovations</td>
<td>$5,000.0</td>
<td>$5,000.0</td>
<td>$5,000.0</td>
</tr>
<tr>
<td>Lima Academic Building</td>
<td>$4,500.0</td>
<td>$4,500.0</td>
<td>$4,500.0</td>
</tr>
<tr>
<td>Animal Sciences Facility</td>
<td>$16,000.0</td>
<td>$16,000.0</td>
<td>$16,000.0</td>
</tr>
<tr>
<td>Support Services Building</td>
<td>$26,900.0</td>
<td>$26,900.0</td>
<td>$26,900.0</td>
</tr>
</tbody>
</table>

| Total State Funded Projects | $574,820.8 | $157,968.6 | $187,848.6 | $229,003.6 |

### Notes

- **CPS LIST**
- **JULY 21, 1989**

---

**The Ohio State University**

1991-96 Capital Plan

State Funding Request

June 1989 Estimates (S000)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC/SUPPLEMENTAL RENOVATIONS (COLUMBUS CAMPUS) *</td>
<td>$33,000.0</td>
<td>11,000.0</td>
<td>11,000.0</td>
<td>11,000.0</td>
</tr>
<tr>
<td>HOSPITALS RENOVATIONS</td>
<td>27,000.0</td>
<td>9,000.0</td>
<td>9,000.0</td>
<td>9,000.0</td>
</tr>
<tr>
<td>ATHLETIC DEPT RENOVATIONS</td>
<td>6,108.0</td>
<td>5,608.0</td>
<td>250.0</td>
<td>250.0</td>
</tr>
<tr>
<td>RESIDENCE &amp; DINING HALLS RENOVATIONS</td>
<td>3,000.0</td>
<td>1,000.0</td>
<td>1,000.0</td>
<td>1,000.0</td>
</tr>
<tr>
<td>UNION BLDG RENOVATIONS</td>
<td>1,500.0</td>
<td>500.0</td>
<td>500.0</td>
<td>500.0</td>
</tr>
<tr>
<td>EQUINE CENTER</td>
<td>1,500.0</td>
<td>1,500.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAW BUILDING ADDITION AND REMOVAL *</td>
<td>7,700.0</td>
<td>7,700.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEW BUSINESS BUILDING</td>
<td>33,700.0</td>
<td>33,700.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASBESTOS REMOVAL *</td>
<td>2,000.0</td>
<td>1,000.0</td>
<td>500.0</td>
<td>500.0</td>
</tr>
<tr>
<td>CAMPBELL HALL ADDITION *</td>
<td>1,500.0</td>
<td>1,500.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOOD SERVICE RENOVATIONS (RESID &amp; DINING)</td>
<td>6,500.0</td>
<td>3,500.0</td>
<td>3,000.0</td>
<td></td>
</tr>
<tr>
<td>LINCOLN/MORRILL TOWERS UPGRADE (RESID &amp; DINING)</td>
<td>7,500.0</td>
<td>7,500.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COLUMBUS PROJECT</td>
<td>15,000.0</td>
<td>15,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEUROPSYCHIATRIC FACILITY</td>
<td>15,000.0</td>
<td>15,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEDICAL LOGISTICAL SERVICES ADDITION</td>
<td>10,000.0</td>
<td>10,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SITE RENOVATIONS/LANDSCAPE (RESID &amp; DINING)</td>
<td>3,000.0</td>
<td>3,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NORTH RESIDENCE HALLS MAINT UPGRADE</td>
<td>9,000.0</td>
<td>3,000.0</td>
<td>3,000.0</td>
<td>3,000.0</td>
</tr>
<tr>
<td>BAKER HALL RENOVATION (DORM)</td>
<td>7,500.0</td>
<td>7,500.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HALL RENOVATION (DORM)</td>
<td>4,000.0</td>
<td>2,000.0</td>
<td></td>
<td>2,000.0</td>
</tr>
<tr>
<td>PARKING STRUCTURE &quot;HM&quot;</td>
<td>6,750.0</td>
<td>6,750.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRINTING FACILITY ADDITION</td>
<td>850.0</td>
<td>850.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOOD SCIENCE FACILITY (AGRI) *</td>
<td>5,250.0</td>
<td>5,250.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROUNDS HALL ADDITION (MANSFIELD) *</td>
<td>500.0</td>
<td>500.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESEARCH CENTER RENOVATION</td>
<td>5,000.0</td>
<td>5,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESEARCH PARK DEVELOPMENT (INFRASTRUCTURE)</td>
<td>3,000.0</td>
<td>3,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STUDENT HEALTH EQUIPMENT UPGRADE</td>
<td>265.0</td>
<td>265.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DON SCOTT FIELD IMPROVEMENTS</td>
<td>2,200.0</td>
<td>2,200.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPORTS PARK SITE DEVELOPMENT</td>
<td>2,000.0</td>
<td>2,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESEARCH PARK RENOVATION/NEW CONSTRUCTION</td>
<td>10,000.0</td>
<td>10,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OUTDOOR AQUATIC CENTER</td>
<td>1,150.0</td>
<td>1,150.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROPERTY ACQUISITIONS (SOUTH, KINNEAR, KENNY)</td>
<td>8,700.0</td>
<td>8,700.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEIGHTLIFTING CENTER</td>
<td>125.0</td>
<td>125.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OHIO UNION ADDITION (4TH FLOOR)</td>
<td>3,600.0</td>
<td>3,600.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STORM/SANITARY SEWER SEPARATION</td>
<td>2,500.0</td>
<td>2,500.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH RESIDENCE HALLS MAINT UPGRADE</td>
<td>8,000.0</td>
<td>4,000.0</td>
<td>4,000.0</td>
<td></td>
</tr>
<tr>
<td>NEIL HALL RENOVATION (DORM)</td>
<td>3,000.0</td>
<td>3,000.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PARKING STRUCTURE &quot;HM&quot;</td>
<td>8,650.0</td>
<td>8,650.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRINTING FACILITY HVAC</td>
<td>525.0</td>
<td>525.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PARKING STRUCTURE &quot;HM&quot;</td>
<td>10,970.0</td>
<td></td>
<td></td>
<td>10,970.0</td>
</tr>
</tbody>
</table>

TOTAL FOR OTHER FUNDING SOURCES $277,723.0 146,588.0 90,915.0 40,220.0

* State Capital funds also required for this project in addition to the non-state amount listed here.
### THE OHIO STATE UNIVERSITY

**Endowment Summary**

**March 16, 1990**

<table>
<thead>
<tr>
<th>Unallocated Cash</th>
<th>3/16/90</th>
<th>6/30/89</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$0</td>
<td>$57,014,059</td>
</tr>
</tbody>
</table>

**Equities:**

<table>
<thead>
<tr>
<th>Fund</th>
<th>Value</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago</td>
<td>36,156,800</td>
<td>55.10%</td>
</tr>
<tr>
<td>R. Meeder (1)</td>
<td>13,014,325</td>
<td>20.59%</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>13,775,102</td>
<td>21.93%</td>
</tr>
<tr>
<td>Nicholas Applegate</td>
<td>13,703,694</td>
<td>21.93%</td>
</tr>
<tr>
<td>Siebel</td>
<td>34,228,855</td>
<td>52.46%</td>
</tr>
<tr>
<td>University Managed</td>
<td>30,113,125</td>
<td>47.37%</td>
</tr>
<tr>
<td>University Students (2)</td>
<td>5,112,747</td>
<td>7.95%</td>
</tr>
<tr>
<td>Wells Fargo EAFE (3)</td>
<td>8,186,508</td>
<td>12.74%</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500 (4)</td>
<td>29,075,340</td>
<td>45.83%</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td><strong>183,366,496</strong></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

**Fixed Income:**

<table>
<thead>
<tr>
<th>Fund</th>
<th>Value</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust</td>
<td>22,762,224</td>
<td>35.13%</td>
</tr>
<tr>
<td>Cambridge</td>
<td>923,002</td>
<td>1.42%</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>10,050,168</td>
<td>15.63%</td>
</tr>
<tr>
<td>WR Lazard (5)</td>
<td>9,807,954</td>
<td>15.33%</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>23,111,524</td>
<td>36.11%</td>
</tr>
<tr>
<td>University GNMA</td>
<td>9,990,143</td>
<td>15.33%</td>
</tr>
<tr>
<td>University Managed</td>
<td>288,140</td>
<td>0.45%</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td><strong>76,933,155</strong></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

**Real Estate**

<table>
<thead>
<tr>
<th>Value</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>43,970,565</td>
<td>69.79%</td>
</tr>
</tbody>
</table>

**Total Portfolio**

<table>
<thead>
<tr>
<th>Value</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>$304,270,216</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

---

**Asset Allocation**

<table>
<thead>
<tr>
<th>3/16/90</th>
<th>% of Portfolio</th>
<th>2/16/90</th>
<th>% of Portfolio</th>
<th>6/30/89</th>
<th>% of Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equities</td>
<td>$167,649,709</td>
<td>55.10%</td>
<td>$162,692,819</td>
<td>54.13%</td>
<td>$106,021,220</td>
</tr>
<tr>
<td>Fixed Income</td>
<td>75,301,148</td>
<td>24.75%</td>
<td>76,422,448</td>
<td>25.43%</td>
<td>66,884,167</td>
</tr>
<tr>
<td>Real Estate</td>
<td>43,875,000</td>
<td>14.42%</td>
<td>39,600,000</td>
<td>13.18%</td>
<td>39,395,000</td>
</tr>
<tr>
<td>Cash</td>
<td>17,444,359</td>
<td>5.73%</td>
<td>21,816,118</td>
<td>7.26%</td>
<td>74,998,002</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$304,270,216</strong></td>
<td><strong>100.00%</strong></td>
<td><strong>$300,531,385</strong></td>
<td><strong>100.00%</strong></td>
<td><strong>$287,298,389</strong></td>
</tr>
</tbody>
</table>

---

R. Meeder began as an advisor on August 8, 1989 with $15,000,000.

University Students began as advisor on February 20, 1990 with $5,000,000.

(3) Wells Fargo EAFE began as an advisor on October 2, 1989 with $10,000,000.

(4) Wells Fargo S&P 500 began as an advisor on October 6, 1989 with $30,000,000.

(5) WR Lazard began as an advisor on August 8, 1989 with $10,000,000.
THE OHIO STATE UNIVERSITY
Endowment Performance Summary

Estimated 12 Month Total Return

**Equities**

<table>
<thead>
<tr>
<th>Equity</th>
<th>Yield%</th>
<th>Change%</th>
<th>Return%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp (1.7)</td>
<td>2.7</td>
<td>15.1</td>
<td>17.8</td>
</tr>
<tr>
<td>R. Meeder (0.7)</td>
<td>1.3</td>
<td>(13.2)</td>
<td>(11.9)</td>
</tr>
<tr>
<td>Neuberger &amp; Berman (0)</td>
<td>2.8</td>
<td>12.1</td>
<td>14.9</td>
</tr>
<tr>
<td>Nicholas Applegate (1.8)</td>
<td>1.3</td>
<td>28.0</td>
<td>29.3</td>
</tr>
<tr>
<td>Siebel (40.7)</td>
<td>4.9</td>
<td>16.7</td>
<td>21.6</td>
</tr>
<tr>
<td>University Managed (0)</td>
<td>2.2</td>
<td>14.6</td>
<td>16.8</td>
</tr>
<tr>
<td>University Students (24.9)</td>
<td>0.2</td>
<td>2.3</td>
<td>2.5</td>
</tr>
<tr>
<td>Wells Fargo EAFE (0)</td>
<td>0.8</td>
<td>(18.1)</td>
<td>(17.3)</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500 (0)</td>
<td>1.6</td>
<td>(3.1)</td>
<td>(1.5)</td>
</tr>
<tr>
<td>S&amp;P 500 (0)</td>
<td>3.9</td>
<td>16.8</td>
<td>20.7</td>
</tr>
</tbody>
</table>

**Ad Income**

<table>
<thead>
<tr>
<th>Income</th>
<th>Yield%</th>
<th>Change%</th>
<th>Return%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust (0.3)</td>
<td>7.7</td>
<td>6.9</td>
<td>14.6</td>
</tr>
<tr>
<td>Cambridge (100.0)</td>
<td>8.2</td>
<td>1.9</td>
<td>10.1</td>
</tr>
<tr>
<td>Duff &amp; Phelps (0.3)</td>
<td>8.2</td>
<td>4.7</td>
<td>12.9</td>
</tr>
<tr>
<td>WR Lazard (0.1)</td>
<td>5.2</td>
<td>(1.9)</td>
<td>3.3</td>
</tr>
<tr>
<td>STW Fixed Income (0.9)</td>
<td>8.7</td>
<td>6.3</td>
<td>15.0</td>
</tr>
<tr>
<td>University GNMA (3.8)</td>
<td>9.6</td>
<td>5.0</td>
<td>14.6</td>
</tr>
<tr>
<td>University Managed (0)</td>
<td>13.5</td>
<td>(11.4)</td>
<td>2.1</td>
</tr>
<tr>
<td>Shearson Govt/Corp (0)</td>
<td>9.1</td>
<td>3.4</td>
<td>12.5</td>
</tr>
</tbody>
</table>

( ) Percent Cash 3/16/90
[1] Reflects return from initial allocation August 8, 1989 only.
[3] Reflects return from initial allocation October 2, 1989 only.
[4] Reflects return from initial allocation October 6, 1989 only.

**Change in Total Valuation**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value (6/30/89)</td>
<td>$287,298,389</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>17,507,282</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(291,000)</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>(244,455)</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$304,270,216</td>
</tr>
</tbody>
</table>

NOTE: Endowment income from July 1, 1989 through March 31, 1990 totaled approximately $12,025,000.
The Ohio State University Endowment Fund
Selected Yield and Interest Rates

YIELDS ON SELECTED SECURITIES
AVERAGES OF DAILY RATES

SELECTED INTEREST RATES
AVERAGES OF DAILY RATES

NOTE: CURRENT DATA APPEAR IN THE BOARD OF GOVERNORS' 15-115 RELEASE
AS VENUE OF MUNICIPAL BONDS, THURSDAY DATA
M A - NOT AVAILABLE
PREPARED BY FEDERAL RESERVE BANK OF ST LOUIS
THE OHIO STATE UNIVERSITY
Maturities and
Real Estate Activity

Maturities that Occurred During Period

<table>
<thead>
<tr>
<th>Per Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No maturities during the period

Real Estate Activity

Acquisitions

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost or Appraised Value</th>
</tr>
</thead>
</table>
| The Busch Boulevard Centre, a 28-store, 50,000 square foot plaza on 3.9 acres, located on the East side of Boardwalk Street and the South side of Mediterranean Avenue in the City of Columbus, Ohio. | Net Gift Value $737,343.75
Endowment Investment 3,537,656.25
Appraised Value $4,275,000.00 |
### Purchases and Gifts During Period

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,100</td>
<td>Barnett Banks, Inc.</td>
<td>Chicago</td>
<td>31.5000</td>
<td>$66,286.50</td>
<td>$2,520.00</td>
</tr>
<tr>
<td>9,000</td>
<td>Federal Signal Corp.</td>
<td>Chicago</td>
<td>21.2500</td>
<td>191,835.00</td>
<td>5,220.00</td>
</tr>
<tr>
<td>2,100</td>
<td>General RE Corp.</td>
<td>Chicago</td>
<td>87.9730</td>
<td>184,879.80</td>
<td>2,856.00</td>
</tr>
<tr>
<td>12,100</td>
<td>Hormel (Geo. A.) &amp; Co.</td>
<td>Chicago</td>
<td>17.0000</td>
<td>206,486.50</td>
<td>2,783.00</td>
</tr>
<tr>
<td>500</td>
<td>Lance, Inc.</td>
<td>Chicago</td>
<td>21.6250</td>
<td>10,812.50</td>
<td>380.00</td>
</tr>
<tr>
<td>800</td>
<td>Liz Claiborne, Inc.</td>
<td>Chicago</td>
<td>23.2500</td>
<td>18,600.00</td>
<td>160.00</td>
</tr>
<tr>
<td>1,400</td>
<td>McGraw–Hill, Inc.</td>
<td>Chicago</td>
<td>54.3130</td>
<td>76,129.20</td>
<td>2,800.00</td>
</tr>
<tr>
<td>1,700</td>
<td>Tribune Co.</td>
<td>Chicago</td>
<td>42.7500</td>
<td>72,785.50</td>
<td>1,496.00</td>
</tr>
<tr>
<td>3,000</td>
<td>Woolworth (F.W.) Co.</td>
<td>Chicago</td>
<td>61.8450</td>
<td>185,730.00</td>
<td>5,640.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Zurn Industries, Inc.</td>
<td>Chicago</td>
<td>39.0180</td>
<td>195,415.00</td>
<td>3,800.00</td>
</tr>
<tr>
<td>6,700</td>
<td>Limited, Inc.</td>
<td>Nicholas–Applegate</td>
<td>39.9800</td>
<td>268,288.00</td>
<td>2,144.00</td>
</tr>
<tr>
<td>21,000</td>
<td>Rowan Companies, Inc.</td>
<td>Nicholas–Applegate</td>
<td>12.9028</td>
<td>270,118.80</td>
<td>0.00</td>
</tr>
<tr>
<td>1,100</td>
<td>Tambrands, Inc.</td>
<td>Nicholas–Applegate</td>
<td>71.0312</td>
<td>78,200.30</td>
<td>2,376.00</td>
</tr>
<tr>
<td>15,000</td>
<td>Geraghty &amp; Miller, Inc.</td>
<td>Siebel</td>
<td>13.0550</td>
<td>196,875.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4,100</td>
<td>Promus Companies, Inc.</td>
<td>Siebel</td>
<td>28.4815</td>
<td>117,061.30</td>
<td>0.00</td>
</tr>
<tr>
<td>110</td>
<td>Ford Motor Co. *</td>
<td>University Managed</td>
<td>46.3694</td>
<td>5,100.63</td>
<td>330.00</td>
</tr>
<tr>
<td>2,000</td>
<td>American International Group, Inc.</td>
<td>University Students</td>
<td>96.5625</td>
<td>193,245.00</td>
<td>960.00</td>
</tr>
<tr>
<td>6,000</td>
<td>American Telephone &amp; Telegraph Co.</td>
<td>University Students</td>
<td>40.6437</td>
<td>244,282.50</td>
<td>7,200.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Banc One Corp.</td>
<td>University Students</td>
<td>29.1750</td>
<td>146,175.00</td>
<td>5,200.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Cooper Tire &amp; Rubber Co.</td>
<td>University Students</td>
<td>33.8375</td>
<td>169,487.50</td>
<td>1,800.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Edison Brothers Stores, Inc.</td>
<td>University Students</td>
<td>32.5750</td>
<td>163,215.00</td>
<td>9,000.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Fifth Third Bancorp</td>
<td>University Students</td>
<td>32.0000</td>
<td>160,300.00</td>
<td>6,600.00</td>
</tr>
<tr>
<td>4,000</td>
<td>Great Lakes Chemical Corp.</td>
<td>University Students</td>
<td>46.0140</td>
<td>184,240.00</td>
<td>1,600.00</td>
</tr>
<tr>
<td>8,000</td>
<td>Hanna (M.A.) Co.</td>
<td>University Students</td>
<td>24.4844</td>
<td>198,385.00</td>
<td>3,200.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Limited, Inc.</td>
<td>University Students</td>
<td>37.2500</td>
<td>188,550.00</td>
<td>1,600.00</td>
</tr>
<tr>
<td>4,000</td>
<td>Medtronics, Inc.</td>
<td>University Students</td>
<td>63.2812</td>
<td>253,375.00</td>
<td>2,800.00</td>
</tr>
<tr>
<td>3,000</td>
<td>PepsiCo, Inc.</td>
<td>University Students</td>
<td>59.6250</td>
<td>179,075.00</td>
<td>3,000.00</td>
</tr>
<tr>
<td>3,000</td>
<td>Procter &amp; Gamble Co.</td>
<td>University Students</td>
<td>65.9583</td>
<td>198,075.00</td>
<td>5,400.00</td>
</tr>
<tr>
<td>6,000</td>
<td>Rubbermaid, Inc.</td>
<td>University Students</td>
<td>32.9833</td>
<td>198,260.00</td>
<td>3,120.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Savannah Foods &amp; Industries, Inc.</td>
<td>University Students</td>
<td>26.5000</td>
<td>265,600.00</td>
<td>11,600.00</td>
</tr>
</tbody>
</table>
### Purchases and Gifts During Period (continued)

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,000</td>
<td>Smucker (J.M.) Co.</td>
<td>University Students</td>
<td>68.1250</td>
<td>$204,555.00</td>
<td>$3,120.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Wal-Mart Stores, Inc.</td>
<td>University Students</td>
<td>46.3750</td>
<td>232,175.00</td>
<td>1,100.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Walgreen Co.</td>
<td>University Students</td>
<td>42.0375</td>
<td>210,487.50</td>
<td>4,000.00</td>
</tr>
<tr>
<td>7,000</td>
<td>Waste Management, Inc.</td>
<td>University Students</td>
<td>34.2679</td>
<td>240,365.00</td>
<td>4,480.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Worthington Industries, Inc.</td>
<td>University Students</td>
<td>20.6250</td>
<td>103,425.00</td>
<td>2,800.00</td>
</tr>
</tbody>
</table>

| Total            |                                 |                   |             | $5,873,836.53| $111,085.00|

*Gift*
<table>
<thead>
<tr>
<th>Number</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Total Sale</th>
<th>Gain (Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,700</td>
<td>Disney (Walt) Co.</td>
<td>Chicago</td>
<td>110.7410</td>
<td>$188,142.92</td>
<td>$93,225.12</td>
</tr>
<tr>
<td>1,281</td>
<td>LIN Broadcasting Corp.</td>
<td>Chicago</td>
<td>154.1100</td>
<td>197,414.91</td>
<td>125,198.53</td>
</tr>
<tr>
<td>5,200</td>
<td>Nordstrom, Inc.</td>
<td>Chicago</td>
<td>29.0455</td>
<td>151,036.60</td>
<td>(6,263.40)</td>
</tr>
<tr>
<td>3,700</td>
<td>Pitney Bowes, Inc.</td>
<td>Chicago</td>
<td>44.7890</td>
<td>165,473.27</td>
<td>111,003.26</td>
</tr>
<tr>
<td>2,500</td>
<td>Rohm &amp; Haas Co.</td>
<td>Chicago</td>
<td>30.5000</td>
<td>76,084.95</td>
<td>(7,635.05)</td>
</tr>
<tr>
<td>3,600</td>
<td>Sigma-Aldrich Corp.</td>
<td>Chicago</td>
<td>56.1675</td>
<td>202,275.00</td>
<td>39,375.00</td>
</tr>
<tr>
<td>2,900</td>
<td>Tarbrands, Inc.</td>
<td>Chicago</td>
<td>73.2500</td>
<td>212,229.41</td>
<td>55,240.81</td>
</tr>
<tr>
<td>6,000</td>
<td>Teleflex, Inc.</td>
<td>Chicago</td>
<td>29.2500</td>
<td>175,104.15</td>
<td>20,330.85</td>
</tr>
<tr>
<td>6,800</td>
<td>UJB Financial Corp.</td>
<td>Chicago</td>
<td>17.0030</td>
<td>115,174.54</td>
<td>(41,667.46)</td>
</tr>
<tr>
<td>5,000</td>
<td>Wesl Markets, Inc.</td>
<td>Chicago</td>
<td>30.0000</td>
<td>149,670.00</td>
<td>6,220.00</td>
</tr>
<tr>
<td>2,000</td>
<td>Foster Wheeler, Inc.</td>
<td>Nicholas-Applegate</td>
<td>23.4300</td>
<td>46,738.43</td>
<td>4,217.79</td>
</tr>
<tr>
<td>7,100</td>
<td>National Medical Enterprises, Inc.</td>
<td>Nicholas-Applegate</td>
<td>30.4977</td>
<td>216,100.67</td>
<td>(36,929.74)</td>
</tr>
<tr>
<td>3,200</td>
<td>Neiman Marcus Group, Inc.</td>
<td>Nicholas-Applegate</td>
<td>16.4498</td>
<td>52,445.49</td>
<td>(1,350.38)</td>
</tr>
<tr>
<td>9,300</td>
<td>Seagate Technology</td>
<td>Nicholas-Applegate</td>
<td>17.7193</td>
<td>164,789.75</td>
<td>39,418.84</td>
</tr>
<tr>
<td>2,200</td>
<td>Transco Energy Co.</td>
<td>Nicholas-Applegate</td>
<td>41.5043</td>
<td>91,174.44</td>
<td>(8,463.24)</td>
</tr>
<tr>
<td>4,000</td>
<td>Wheelabator Technologies, Inc.</td>
<td>Nicholas-Applegate</td>
<td>34.1742</td>
<td>136,452.13</td>
<td>(12,781.88)</td>
</tr>
<tr>
<td>1,331</td>
<td>Bass Public Limited Co.</td>
<td>Siebel</td>
<td>15.8750</td>
<td>21,035.75</td>
<td>1,276.20</td>
</tr>
<tr>
<td>18,000</td>
<td>Cooper Industries, Inc.</td>
<td>Siebel</td>
<td>38.9720</td>
<td>700,212.61</td>
<td>222,802.79</td>
</tr>
<tr>
<td>15,000</td>
<td>Novell, Inc.</td>
<td>Siebel</td>
<td>37.2500</td>
<td>556,750.00</td>
<td>81,870.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Toys-R-Us, Inc.</td>
<td>Siebel</td>
<td>41.1090</td>
<td>410,376.29</td>
<td>188,194.86</td>
</tr>
<tr>
<td>17</td>
<td>Mobil Corp. *</td>
<td>University Managed</td>
<td>61.6253</td>
<td>1,044.19</td>
<td>61.38</td>
</tr>
<tr>
<td>65</td>
<td>Southwest Bell Corp. *</td>
<td>University Managed</td>
<td>57.2501</td>
<td>3,879.27</td>
<td>203.02</td>
</tr>
<tr>
<td>1,190</td>
<td>Webster Industries, Inc.</td>
<td>University Managed</td>
<td>29.0000</td>
<td>34,510.00</td>
<td>(4,685.10)</td>
</tr>
</tbody>
</table>

$4,070,114.77 $868,862.20

* Gift
### Purchases and Gifts During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Price</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,710,000</td>
<td>U.S. Treasury Bond 0.000% 02-15-19</td>
<td>Boatmen's</td>
<td>0.000</td>
<td>8.2781</td>
<td>9.5630</td>
<td>$354,787.30</td>
</tr>
<tr>
<td>2,000,000</td>
<td>U.S. Treasury Note 8.500% 02-15-00</td>
<td>Duff &amp; Phelps</td>
<td>8.5427</td>
<td>8.5743</td>
<td>99.5000</td>
<td>1,990,000.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>NCNB Corp. 9.375% 09-15-09</td>
<td>STW</td>
<td>10.0849</td>
<td>10.2139</td>
<td>92.9610</td>
<td>929,610.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>New York State Dorm Revenue Series B 7.250% 05-15-15</td>
<td>STW</td>
<td>7.5718</td>
<td>7.6307</td>
<td>95.7500</td>
<td>957,500.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 10.750% 08-15-05</td>
<td>STW</td>
<td>9.2324</td>
<td>8.7840</td>
<td>116.4375</td>
<td>1,164,375.00</td>
</tr>
</tbody>
</table>

**Total Investment:** $5,396,272.30
### THE OHIO STATE UNIVERSITY

**Fixed Income Sales**

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Per Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Price</th>
<th>Total Sale</th>
<th>Gain (Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,600,000</td>
<td>U.S. Treasury Bond 0.000% 11-15-18</td>
<td>Boatmen's</td>
<td>9.8440</td>
<td>$364,384.00</td>
<td>$(8,568.00)</td>
</tr>
<tr>
<td>930,000</td>
<td>U.S. Treasury Bond 8.125% 08-15-19</td>
<td>Cambridge</td>
<td>94.0313</td>
<td>874,490.63</td>
<td>$(15,548.43)</td>
</tr>
<tr>
<td>2,000,000</td>
<td>U.S. Treasury Note 7.000% 04-15-94</td>
<td>Duff &amp; Phelps</td>
<td>94.4062</td>
<td>1,888,125.00</td>
<td>30,000.00</td>
</tr>
<tr>
<td>100,000</td>
<td>U.S. Treasury Note 8.125% 02-15-98</td>
<td>Duff &amp; Phelps</td>
<td>97.0156</td>
<td>97,015.63</td>
<td>$(2,834.07)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Triborough Bridge NY-Municipal 7.125% 01-01-19</td>
<td>STW</td>
<td>94.1300</td>
<td>941,300.00</td>
<td>$(41,200.00)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>New York State Dorm Revenue Series A 7.125% 05-15-17</td>
<td>STW</td>
<td>94.0140</td>
<td>940,140.00</td>
<td>$(18,650.00)</td>
</tr>
<tr>
<td>354,772</td>
<td>Ford Credit 1989A Grantor Trust 8.700% 10-17-94</td>
<td>STW</td>
<td>98.6719</td>
<td>350,060.46</td>
<td>$(3,270.56)</td>
</tr>
<tr>
<td>550,000</td>
<td>U.S. Treasury Bond 9.250% 02-15-16</td>
<td>STW</td>
<td>105.0781</td>
<td>577,929.69</td>
<td>$(27,620.61)</td>
</tr>
</tbody>
</table>

**Total**

$6,023,445.41 $(87,691.67)
### Real Estate Investments

| Buildings and 3.9 acres at Boardwalk Street and Mediterranean Avenue | 9.36% | 1990 | $4,275,000 | $4,275,000 | 10/89 |
| 46.984 acres of land in Delaware County | 0.55% | 1971 | 100,793 | 641,000 | 06/89 |
| Hangar at Don Scott Field (Loan) | 0.00% | 1973 | 26,000 | 26,000 | N/A |
| Hangar addition at Don Scott Field (Loan) | 10.00% | 1978 | 69,565 | 69,565 | N/A |
| 17.92 acres of land on Eiterman Road | 0.00% | 1978 | 25,152 | 725,000 | 05/88 |
| 51 acres of land, 2809 West Granville Road | 0.00% | 1962 | 160,265 | 2,896,000 | 06/89 |
| 48.52 acres of land, 3025 West Granville Road | 0.00% | 1972 | 544,398 | 4,367,000 | 06/89 |
| 76.143 acres of land, 3253 West Granville Road | 0.03% | 1968 | 310,538 | 6,853,000 | 06/89 |
| 30.539 acres of land, 3371 West Granville Road | 0.00% | 1971 | 265,079 | 2,749,000 | 06/89 |
| 32 acres of land, 3371 West Granville Road | 0.19% | 1986 | 2,078,666 | 2,880,000 | 06/89 |
| 12 acres of land, 3483 West Granville Road | 0.00% | 1965 | 24,000 | 1,080,000 | 06/89 |
| 8.557 acres of land, 3505 West Granville Road | 0.00% | 1968 | 17,114 | 770,000 | 06/89 |
| Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road | 2.94% | 1986 | 95,000 | 95,000 | 01/86 |
| 94.5 acres of land on Harrisburg Pike | 0.00% | 1986 | 190,000 | 283,000 | 06/89 |
| Building and 2.633 acres at 1900 Kenny Road | 21.84% | 1961 | 659,930 | 1,250,000 | 06/89 |
| Building and 6.41 acres at 1960 Kenny Road | 17.36% | 1971 | 1,320,693 | 2,500,000 | 06/89 |
| Building and 6.328 acres at 1991 Kenny Road | 8.81% | 1968 | 170,000 | 696,000 | 06/89 |
| Building and 3.295 acres at 930 Kinnear Road | 7.97% | 1962 | 435,204 | 1,550,000 | 06/89 |
| Building and 5.56 acres at 1100 Kinnear Road | 3.74% | 1984 | 825,000 | 2,650,000 | 06/89 |
| 20.988 acres of land on Shier-Rings Road | 0.00% | 1978 | 241,848 | 1,155,000 | 08/89 |
| Veterans Administration Clinic | 8.08% | 1979 | 3,767,261 | 6,460,000 | 02/85 |

<table>
<thead>
<tr>
<th>Year Acquired</th>
<th>Carrying Value</th>
<th>Appraised Value</th>
<th>Date Appraised</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>$4,275,000</td>
<td>$4,275,000</td>
<td>10/89</td>
</tr>
<tr>
<td>1971</td>
<td>100,793</td>
<td>641,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1973</td>
<td>26,000</td>
<td>26,000</td>
<td>N/A</td>
</tr>
<tr>
<td>1978</td>
<td>69,565</td>
<td>69,565</td>
<td>N/A</td>
</tr>
<tr>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>1962</td>
<td>160,265</td>
<td>2,896,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1972</td>
<td>544,398</td>
<td>4,367,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1968</td>
<td>310,538</td>
<td>6,853,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1971</td>
<td>265,079</td>
<td>2,749,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1986</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1965</td>
<td>24,000</td>
<td>1,080,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>1986</td>
<td>190,000</td>
<td>283,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1961</td>
<td>659,930</td>
<td>1,250,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1968</td>
<td>170,000</td>
<td>696,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1962</td>
<td>435,204</td>
<td>1,550,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1984</td>
<td>825,000</td>
<td>2,650,000</td>
<td>06/89</td>
</tr>
<tr>
<td>1978</td>
<td>241,848</td>
<td>1,155,000</td>
<td>08/89</td>
</tr>
<tr>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
</tr>
</tbody>
</table>

$15,601,506$  $43,970,565$

(1) Amount represents balance on loan made to Department of Aviation
MEMORANDUM

Subject: Proxy Solicitations

Date: March 30, 1990

From: James L. Nichols, Treasurer

To: Board of Trustees, The Ohio State University

During the month of March 1990, the University voted 101 proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Ratification of independent auditors;
3) Amendment to fix the number of directors;
4) Approval of a long-term incentive plan;
5) Adoption of a deferred unit stock plan;
6) Amendment to a stock option plan;
7) Amendment to increase number of authorized shares of common stock;
8) Adoption of an employee stock purchase plan;
9) Ratification of an equity incentive plan;
10) Approval of a restricted stock plan for non employee directors;
11) Approval of a new investment advisory agreement;
12) Amendment to classify the Board of Directors; eliminate shareholder action by written consent and require 80% affirmative vote to change the number of directors and change this amendment;
13) Approval of a stock option plan;
14) Amendment to change the company name;
15) Adoption of a retention stock plan;
16) Amendment to limit the financial liability of the directors;
17) Approval of a stock option plan for non-employee directors;
18) Adoption of a stock option and incentive plan;
19) Approval of a restricted stock plan for senior executives;
20) Ratification of an employee stock bonus plan.
21) Approve reinstatement of 1987 Stock Option Plan;
22) Approval to convert the Savings Incentive Plan to a profit sharing plan;
23) Authorize new class of Preferred Stock;
24) Ratify 1990 Long-Term Performance Plan;
25) Amend 1981 Long-Term Incentive Plan and 1981 Incentive Stock Option Plan;
26) Approve a by-law that protects directors from being removed without a majority vote;
27) Amend articles of Incorporation to conform with the new Pennsylvania Business Corporation Law;
28) Approval to increase shares for the 1988 long-term incentive plan.
The shareholder proposals were as follows:

1) Terminate all business and economic relationships with the Republic of South Africa;
2) Sever all ties with South Africa; negotiate disinvestment with workers and unions prior to action; relocate in frontline states in order to isolate South Africa;
3) Remove accounts in South Africa; not convert South Africa dealings into exit loans; provide no trade to South African economy;
4) Require a vote on the 1986 shareholder rights plan;
5) Enact confidential shareholder voting;
6) Reinstate annual election of all directors;
7) Implement the MacBride principles;
8) Institute cumulative voting for the election of directors;
9) Require a published report on all employees with prior government service;
10) Establish a committee to review Northern Ireland operations;
11) Require a report outlining the status of environmental objectives;
12) Allow for the rotation of the annual meeting site;
13) Require additional reporting of corporate officers whose salary exceeds $100,000;
14) Refrain from making loans to the USSR and any of its allied Marxist countries;
15) Vote tabulation be conducted by a third party;
16) Restore limited pre-emptive rights to shareholders;
17) Phase out Affirmative Action Program directed toward recruiting particular racial or ethnic groups;
18) Refrain from supporting any organizations that endorse, counsel or perform abortions;
19) Adopt a policy and report annually the use of animals for testing products;
20) Adopt a policy regarding the promotion of baby formula;
21) Nominate directors through the annual shareholder meeting notice;
22) Limit terms of non-employee directors;
23) Approve Share Purchase Rights Plan;
24) Amendment to by-laws regarding majority voting at shareholder meetings;
25) Report on nuclear business;
26) Implement plan regarding hazardous waste;
27) Assure products are modified so they don't harm the ozone layer or atmosphere;
28) Require directors to hold at least 2,000 shares;
29) Require Company to study advertising of products and children's responses;
30) Require Company to stop dealing in tobacco products.

The University voted for all Management proposals and against all shareholder proposals, except for Numbers 1, 2 and 3. Additionally, Management opposed all shareholder proposals.
The 101 corporations were:

1) Alexander & Baldwin, Incorporated
2) American Electric Power Company, Incorporated
3) American Home Products Corporation
4) American Telephone & Telegraph
5) American Information Technologies Corporation
6) Anadarko Petroleum Corporation
7) Anheuser-Busch Companies, Incorporated
8) Aon Corporation
9) Avery International Corporation
10) Ball Corporation
11) Bancorp Hawaii, Incorporated
12) Bankers Trust New York Corporation
13) The Bank of New York Company, Incorporated
14) Banc One Corporation
15) Barnett Banks, Incorporated
16) Bausch & Lomb, Incorporated
17) Bell Atlantic Corporation
18) Betz Laboratories, Incorporated
19) BellSouth Corporation
20) Blair Corporation
21) The Boeing Company
22) Boise Cascade Corporation
23) Borden, Incorporated
24) Bristol-Myers Squibb Company
25) Browning-Ferris Industries, Incorporated
26) Cincinnati Bell, Incorporated
27) Citicorp
28) Claircor, Incorporated
29) The Coca-Cola Company
30) Consolidated Freightways, Incorporated
31) Cooper Industries
32) Cooper Tire & Rubber Company
33) CoreStates
34) Corning Incorporated
35) CPC International, Incorporated
36) Crompton and Knowles Corporation
37) Cummins Engine Company, Incorporated
38) Dover Corporation
39) The Dun and Bradstreet Corporation
40) First Virginia Banks, Incorporated
41) Fleet/Norstar Financial Group
42) Fleming Companies, Incorporated
43) Flight Safety International
43) Fluor Corporation
44) Gannett Company, Incorporated
45) General Electric Company
46) General Signal
47) Genuine Parts Company
48) Grumman Corporation
49) M.A. Hanna Company
50) John H. Harland Company
51) Hartmanx Corporation
52) Helmerich and Payne, Incorporated
53) Hershey Foods Corporation
54) Hillenbrand Industries
55) Huntington Bancshares, Incorporated
56) Intel Corporation
57) Interlake Corporation
58) International Business Machines
59) M/A-Com, Incorporated
60) Melville Corporation
61) Merck and Company, Incorporated
62) Millipore Corporation
63) MNC Financial, Incorporated
64) National City Corporation
65) NCR Corporation
66) Neuberger and Berman Guardian Fund
67) Novell, Incorporated
68) Pacific Telesis Group
69) Philip Morris Companies, Incorporated
70) PNC Financial Corporation
71) Quantum Chemical Corporation
72) Rowan Companies, Incorporated
73) R.R. Donnelley and Sons Company
74) Russell Corporation
75) Ryan's Steak Houses, Incorporated
76) The Sherwin-Williams Company
77) Shoney's Incorporated
78) Sonoco Products Company
79) Springs Mills
80) Square D Company
81) The Stanley Works
82) Sun Trust Banks, Incorporated
83) Tambrands, Incorporated
84) Teco Energy, Incorporated
85) Thomas and Betts
86) Times Mirror
87) UJB Financial
88) Union Pacific Corporation
89) U.S. Bancorp
90) U.S. Home Corporation
91) United Telecommunications, Incorporated
92) The Valspar Corporation
93) VF Corporation
94) Watkins-Johnson Company
95) Weis Markets, Incorporated
96) Weyerhauser Company
97) Wells Fargo and Company
98) William Wrigley Jr. Company
99) Williamette Industries, Incorporated
100) Wilmington Trust
101) Yellow Freight System Incorporated of Delaware
APPENDIX LXII

AMERIFLORA '92

Presented to the Agricultural Affairs Committee
April 6, 1990
(See page 918)
DIRECT UNIVERSITY SUPPORT

The Ohio State University has contributed to Ameriflora direct support in the amount of $76,552 for FY 87, $121,734 for FY 88, $47,355 for FY 89 and an estimated $50,000-$60,000 for FY 90-FY 93. Most of this direct support is for the Director's university salary and benefits, plus temporary start up support during 1987-88 (see attached sheet).

BIO CONTAINMENT FACILITY

A plant bio containment facility will be constructed next to the Department of Horticulture greenhouses as a quarantine facility for all plants imported from foreign countries, especially root stocks. This is necessary to prevent pests and diseases from passing to American flowers and plants. This building will include a 3,370 sq. ft. containment facility with negative air pressure and filters for air and water. This room will meet all USDA regulations for containment. Also a regular greenhouse of 13,112 sq. ft. will be constructed. The entire facility will be encircled by a chain link security fence. The cost of $2,225,000 is from state capital improvement funds. This is a minority set aside project. The University is providing full project coordination. The building will be used by the departments of Horticulture, Plant Pathology and Agronomy after the Ameriflora show. The building is designed to be an integral part of horticulture greenhouses.

DISCOVERY CENTER

The educational discovery center will be 18,000 sq. ft. of exhibit and theater space. The cost of $4,500,000 is provided by state funds through the capital improvements bill. The University is only coordinating the project with Ameriflora. This building is currently in early architectural design stage with discussions on the Chadwick Arboretum use of the building after Ameriflora. Cost estimates to move the building from Franklin Park to the Arboretum are still being developed. A decision on the movement of the building will depend on cost and functionality at Chadwick.
COLLEGE OF AGRICULTURE AND UNIVERSITY PROGRAM

The College and University exhibits and educational programs will be in the center of the Discovery pavilion. The authorized university support for designing, constructing, and maintaining the exhibits is $395,000.

Program Objectives

1. To support and participate in the Ameriflora '92 exposition by providing horticultural publications, educational information and programs to exposition visitors.
2. To establish presence and visibility for The Ohio State University at Ameriflora '92 through creative activities of the College of Agriculture.
3. To recruit prospective agriculture students and donors.
4. To help exposition visitors gain awareness, insights and appreciation for the many ways in which successful agricultural pursuits can improve the quality of life.

Physical Facilities

1968 square feet of the Discovery Center has been set aside for the College and University exhibits. This space will have a reception and information area, an audio visual area and the exhibits area.

Plan of Action

The program will run from April 19 - October 12, 1992, 176 days. Plans for the College and University exhibits will be completed by September 1, 1990 and exhibit construction completed by February 15, 1992.

Staffing

All volunteers for this project are from the College, Department of Horticulture, Community and Visitor Relations, Communication Services, Human Ecology and Biological Sciences. Over 1800 volunteers will be needed to staff the 176 days of the show.

Exhibits

Exhibits will focus on the importance of plants in our lives, the science of plants, agriculture, and the University.
The Ohio State University Expenses for AMERIFLORA

<table>
<thead>
<tr>
<th></th>
<th>1986-87</th>
<th>1987-88</th>
<th>1988-89</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Salaries &amp; Wages (a)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Director</td>
<td>36,192</td>
<td>38,016</td>
<td>39,552</td>
<td>113,760</td>
</tr>
<tr>
<td>Coordinator</td>
<td>7,166</td>
<td>28,360</td>
<td>44,850</td>
<td>80,376</td>
</tr>
<tr>
<td>Specials</td>
<td></td>
<td>14,272</td>
<td></td>
<td>14,272</td>
</tr>
<tr>
<td><strong>Total Salaries</strong></td>
<td>43,358</td>
<td>80,648</td>
<td>84,402</td>
<td>208,408</td>
</tr>
<tr>
<td><strong>Employee Benefits</strong></td>
<td>8,545</td>
<td>16,292</td>
<td>16,212</td>
<td>41,050</td>
</tr>
<tr>
<td><strong>Supplies &amp; Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailing</td>
<td></td>
<td>17</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Equipment Rental</td>
<td>439</td>
<td>7,662</td>
<td>0</td>
<td>8,100</td>
</tr>
<tr>
<td>Rental of Space</td>
<td>11,895</td>
<td>11,719</td>
<td>13</td>
<td>23,626</td>
</tr>
<tr>
<td>Reproduction Service</td>
<td>112</td>
<td></td>
<td>112</td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td>6,950</td>
<td>5,413</td>
<td></td>
<td>12,364</td>
</tr>
<tr>
<td><strong>Total Supplies</strong></td>
<td>19,396</td>
<td>24,794</td>
<td>30</td>
<td>44,219</td>
</tr>
<tr>
<td>Equipment Purchases</td>
<td>5,253</td>
<td></td>
<td></td>
<td>5,253</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>76,552</td>
<td>121,734</td>
<td>100,644</td>
<td>298,930</td>
</tr>
<tr>
<td><strong>Amount Reimbursed (b)</strong></td>
<td></td>
<td></td>
<td>53,289</td>
<td>53,289</td>
</tr>
<tr>
<td><strong>Net Expenses</strong></td>
<td>76,552</td>
<td>121,734</td>
<td>47,355</td>
<td>245,641</td>
</tr>
</tbody>
</table>

Expenses By Type Of Support:

<table>
<thead>
<tr>
<th></th>
<th>1986-87</th>
<th>1987-88</th>
<th>1988-89</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Funds</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ameriflora</td>
<td>75,165</td>
<td>116,321</td>
<td>47,355</td>
<td>238,841</td>
</tr>
<tr>
<td>President’s Reserve</td>
<td>1,387</td>
<td>5,413</td>
<td></td>
<td>5,413</td>
</tr>
<tr>
<td>Humanities (Quinony)</td>
<td></td>
<td></td>
<td>1,387</td>
<td></td>
</tr>
<tr>
<td><strong>Total Gen Funds</strong></td>
<td>76,552</td>
<td>121,734</td>
<td>47,355</td>
<td>245,641</td>
</tr>
<tr>
<td><strong>Agency Fund</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>53,289</td>
<td></td>
<td></td>
<td>53,289</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>76,552</td>
<td>121,734</td>
<td>100,644</td>
<td>298,930</td>
</tr>
</tbody>
</table>

(a) Salaries = Director, J Peterson; Coordinators, G Nuber, K Margard and L Holstein

(b) Reimbursement = salary and benefits for L Holstein
APPENDIX LXIII

PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT
ROBINSON LABORATORY RENOVATION
RIGHTMIRE HALL RENOVATION - PHASE II, DEMOLITION

Adopted by the Board of Trustees April 6, 1990
(See page 935)
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT

April 6, 1990

Tabulation of Bids

Bids received by The Ohio State University on February 21, 1990. Bids opened by Jean Frey and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Williamson</th>
<th>Powell</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$101,000.00</td>
<td>$86,350.00</td>
<td>$93,370.00</td>
<td>$99,400.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$101,000.00</td>
<td>$86,350.00</td>
<td>$93,370.00</td>
<td>$99,400.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

- Alt. G-1 (Resilient Tile & Base) $10,000.00 $5,025.00 $9,350.00 $4,200.00
- Alt. G-2 (Textured Paint) 2,500.00 5,750.00 14,300.00 5,500.00
- Alt. G-3 (Drywall Reveal Trim) 5,000.00 1,800.00 2,552.00 1,600.00

<table>
<thead>
<tr>
<th>Mechanical Contract (Cont)</th>
<th>Estimate</th>
<th>Edmonds</th>
<th>Advantage</th>
<th>Stegall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$66,989.00</td>
<td>$77,500.00</td>
<td>$78,946.00</td>
<td></td>
</tr>
<tr>
<td>Total Mechanical Contract</td>
<td>$66,989.00</td>
<td>$77,500.00</td>
<td>$78,946.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Edmonds</th>
<th>Advantage</th>
<th>Stegall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$75,000.00</td>
<td>$73,500.00</td>
<td>$73,966.00</td>
<td>$78,946.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$75,000.00</td>
<td>$73,500.00</td>
<td>$73,966.00</td>
<td>$78,946.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract (Continued)</th>
<th>Estimate</th>
<th>Smith &amp; Bruce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$139,320.00</td>
<td></td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$139,320.00</td>
<td></td>
</tr>
</tbody>
</table>
PRESSEY HALL REMODELING FOR OFFICE OF CAREER DEVELOPMENT

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 6, 1990
April 6, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
ROBINSON LABORATORY REMOVAL

Tabulation of Bids

Bids received by The Ohio State University on February 13, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Waller &amp; Landt</th>
<th>Ed Ross</th>
<th>CMN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$137,186.00</td>
<td>$134,760.00</td>
<td>$147,300.00</td>
<td>$162,266.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$137,186.00</td>
<td>$134,760.00</td>
<td>$147,300.00</td>
<td>$162,266.00</td>
</tr>
</tbody>
</table>

Alternates not taken:

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Description</th>
<th>AMCO</th>
<th>Functional</th>
<th>M &amp; P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. G-1</td>
<td>(Metal Stud Sound Walls)</td>
<td>$6,000.00</td>
<td>$12,280.00</td>
<td>$12,279.00</td>
</tr>
<tr>
<td>Alt. G-2</td>
<td>(Valving of Pits)</td>
<td>4,000.00</td>
<td>16,830.00</td>
<td>17,138.00</td>
</tr>
<tr>
<td>Alt. G-3</td>
<td>(Lighting of Pits)</td>
<td>9,000.00</td>
<td>3,960.00</td>
<td>4,027.00</td>
</tr>
<tr>
<td>Alt. G-4</td>
<td>(Removable Floor Slab System)</td>
<td>24,000.00</td>
<td>46,500.00</td>
<td>50,308.00</td>
</tr>
</tbody>
</table>

General Contract (Cont.)

| Base Bid         | $166,661.00 | $176,990.00 | $179,500.00 |
| Total General Contract | $166,661.00 | $176,990.00 | $179,500.00 |

Alternates not taken:

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Description</th>
<th>AMCO</th>
<th>Functional</th>
<th>M &amp; P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt. G-1</td>
<td>(Metal Stud Sound Walls)</td>
<td>$6,000.00</td>
<td>$11,000.00</td>
<td>$14,000.00</td>
</tr>
<tr>
<td>Alt. G-2</td>
<td>(Valving of Pits)</td>
<td>24,000.00</td>
<td>17,000.00</td>
<td>14,490.00</td>
</tr>
<tr>
<td>Alt. G-3</td>
<td>(Lighting of Pits)</td>
<td>27,000.00</td>
<td>5,000.00</td>
<td>3,787.00</td>
</tr>
<tr>
<td>Alt. G-4</td>
<td>(Removable Floor Slab System)</td>
<td>41,900.00</td>
<td>2,010.00</td>
<td>37,900.00</td>
</tr>
</tbody>
</table>
ROBINSON LABORATORY
RENOVATION

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 6, 1990
April 6, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

RIGHTMIRE HALL RENOVATION - PHASE II, DEMOLITION

Tabulation of Bids

Bids received by The Ohio State University on February 15, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Cody Zeigler</th>
<th>Ed Ross</th>
<th>Mid-State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$549,480.00</td>
<td>$307,000.00</td>
<td>$327,800.00</td>
<td>$344,300.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$549,480.00</td>
<td>$307,000.00</td>
<td>$327,800.00</td>
<td>$344,300.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Contract (Cont.)</th>
<th>Aitman</th>
<th>Functional</th>
<th>GEM</th>
<th>AECG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$353,627.00</td>
<td>$384,620.00</td>
<td>$425,700.00</td>
<td>$430,000.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$353,627.00</td>
<td>$384,620.00</td>
<td>$425,700.00</td>
<td>$430,000.00</td>
</tr>
</tbody>
</table>
RIGHTMIRE HALL RENOVATION
PHASE II, DEMOLITION

OFFICE OF BUSINESS AND ADMINISTRATION
APRIL 6, 1990
The Board of Trustees met at its regular monthly meeting on Thursday, May 3, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

**   **   **

Minutes of the last meeting were approved.

**   **   **
May 3, 1990 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on May 3, 1990, at 11:15 a.m. He requested the Secretary to call the roll.


---0--

ELECTION OF OFFICERS
BOARD OF TRUSTEES

Resolution No. 90-107

Mr. Scott read the Nominating Committee's report in which the following slate of officers were recommended:

WHEREAS pursuant to paragraph (B) of rule 3335-1-02 of the Administrative Code, the officers of the Board are to be elected at the May meeting to take office immediately following adjournment of the meeting (May 3, 1990) and shall hold their office through the May 1991 meeting:

NOW THEREFORE

BE IT RESOLVED, That the following slate of officers for 1990-91 be elected:

Shirley Dunlap Bowser, Chairperson

Hamilton J. Teaford, Vice Chairperson

Madison H. Scott, Secretary

James L. Nichols, Treasurer

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0--

RESEARCH FOUNDATION REPORT

Mr. Barone:

Research Foundation grants and contracts for the month of March 1990 are shown in the Board Agenda Book. There are 125 awards listed which provide a gross income of $11.2 million.

Funding for the first nine months of the fiscal year is 3 percent behind that of last fiscal year at this time.
May 3, 1990 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

Some highlights of awards are:

$533,000 from the National Science Foundation for a project to add new technology to math courses in Ohio schools.

$280,000 from the National Cancer Institute to operate the Ohio Cancer Information Center.

$100,000 from the National 4-H Council for a recycling project.

$86,000 from the National Science Foundation for a joint study with Soviet scientists on climates in Alaska and Siberia.

Thank you. That concludes my report. Dr. Tom Sweeney is available to answer any specific questions you may have.

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

On April 26, the Strategic Planning Committee of the Hospitals Board met to hear an analysis of the Hospitals' position measured by several criteria, included in the medical center's strategic plan. As Cathy Bruno, Administrator for Marketing and Planning, reviewed volume and market share trends with regard to overall admissions and selected Centers of Emphasis, we noted that based on the top 50 Diagnostic Related Groups (DRG's) in 1988, Ohio State University Hospitals had the lowest -- I repeat the lowest -- per diem charge to non-governmental payers in Columbus. So anyone that tells you we are expensive is wrong. We discussed the implications of being a low priced provider of healthcare services. Vice President Tzagournis has appointed a Clinical Productivity Committee to study medical staff practice patterns and identify areas where costs could be lowered without compromising the quality of services.

Dr. Kathryn Clausen reported on the College of Medicine's Strategic Planning activities, and Dr. David Cornwell presented a progress report on the College's Research Strategic Plan. I might say that I think the principle impetus in the development of all of these strategic plans by the Hospitals Board has been my colleague, Mrs. Bowser. And I think the Hospitals Board is greatly in her debt and, frankly, is going to miss her participation there.

The Hospitals Board's Executive Committee also met on April 26. After receiving reports from medical staff leadership, we reviewed the financial and statistical summary for the month of March. Patient activity was very high, with admissions up 14 percent from the previous month. Patient revenues and ancillary services were over budget for March; however, the recording of bad debts and expenses from previous years (totaling in excess of $650,000), coupled with higher than budgeted expenses resulted in net income being $500,000 lower than budgeted. A loss of $900,000, as opposed to a budgeted loss of $401,000. As for the rest of the year, we are about $1.5 million off budget.
HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

The Executive Committee received a brief report on development activities. We viewed a video tape of a recent segment aired on CBS Sunday Morning, which featured one of our oncology nurses and the special understanding that she has for our patients as a result of her own battle with cancer. We also received copies of the April 30 issue of the U.S. News and World Report, which I hope all of you have had a chance to see. In that magazine The Ohio State University Hospitals was recognized as one of America's 57 best hospitals. And we were especially highlighted for our rehabilitation services. We are the only hospital in Central Ohio identified on that list and one of only three in this State, one of which is a children's hospital in Cincinnati. I hope that this gets more publicity than I think it has gotten up to now, because it is a very significant thing for the University. It is particularly interesting when I report to you earlier that we are the least expensive hospital on a per diem basis in this area and one of the 57 best in the United States. That completes my report, Mr. Chairman.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and heard the Endowment Portfolio report as presented by Mr. Rodack. As of April 20, 1990, the market value of the University endowment is $299.9 million.

The Committee also heard a quarterly progress report on The Ohio State University Campaign. As of March 31, 1990, campaign receipts and expectancies totaled $425 million, 122 percent of the campaign goal.

As an incidental item -- but we think it is important -- the students and their investment portfolio, although only two months old, are performing very well. We are pleased to see that happen. That concludes the report of the Investments Committee.

(See Appendix LXIV for complete context of The Ohio State University Endowment Summary, April 20, 1990, page 1039.)
(See Appendix LXV for chart of The Ohio State University Campaign Progress Report, March 31, 1990, page 1051.)

--0--

ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Caste:

We heard a report from Dr. Charles Bender on Academic Computing. Academic Computing provides the overall direction for and implementation of centrally funded computing for the academic community at The Ohio State University through advice from two faculty committees, one for research and one for instruction. The committees report directly to the Provost, creating a mechanism for faculty involvement in the allocation of central computing resources.
May 3, 1990 meeting, Board of Trustees

ACADEMIC AFFAIRS COMMITTEE REPORT (contd)

Ms. Casto: (contd)

The mission of Academic Computing is to "provide overall direction for and implementation of all computing activities which the faculty and students require to satisfy their academic responsibilities."

Currently the IRCC, Academic Computing's "functional arm," operates:

- five mainframe computers used heavily by faculty, staff and students for instruction, research, electronic mail, and electronic bulletin boards;
- 35 microcomputer labs used mainly for undergraduate instruction;
- several workstation and/or graphic terminal sites used for both research and instruction; and
- the SONNET campus network, necessary for connectivity within and outside the University.

Additionally, IRCC provides computer education services and basic consulting in research and instructional software and hardware options including local area network support. Trends show an increased demand for "distributed" services at Ohio State such as support for departmental/college equipment and coordination of software and hardware maintenance to take advantage of economies of scale.

In relation to the other Big 10 schools, it is probably fair to say that Ohio State is currently somewhere in the middle. Leaders such as Michigan, Indiana, and Purdue are increasing the number of public access seats, enhancing network connectivity among units, and externally encouraging student ownership of computers via discounts and other incentives, in addition to providing newer and more attractive mainframe services such as user friendly electronic mail interfaces and access to the library on-line. Several schools are financing these initiatives with student fees for computing.

At Ohio State the immediate challenges are developing some sort of support system for distributed equipment for the research community and providing for the significant increase in student seats necessary to implement the new General Education Curriculum. We estimate an increase from 800 to approximately 4000 public computers over the next four years. To respond, Academic Computing has undergone considerable redirection in the past 18 months in an attempt to meet the changing needs of the academic community.

The Committee is also recommending the following resolutions:

NEW DEGREE PROGRAM

Resolution No. 90-108

Synopsis: The Academic Affairs Committee recommended the approval of the establishment of a Master of Arts degree program in Women's Studies.
NEW DEGREE PROGRAM (contd)

WHEREAS members of the Graduate Faculty associated with the Center for Women's Studies have proposed a Master of Arts degree program in Women's Studies:

WHEREAS academic needs have been evidenced by the growth of women's studies as a vital intellectual field;

WHEREAS socio-economic factors have led to an increasing demand in public and private sectors for expertise in women's issues;

WHEREAS there is increased student demand for such a program;

WHEREAS Ohio State would be one of the first major institutions of higher education to establish the MA degree in Women's Studies;

WHEREAS the Master of Arts degree program in Women's Studies has been recommended by the Council for Research and Graduate Studies and approved by the University Senate at its April 7, 1990 meeting:

NOW THEREFORE

BE IT RESOLVED, That the proposal to establish a Master of Arts degree program in Women's Studies is hereby approved.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

NEW DEGREE PROGRAM

Resolution No. 90-109

Synopsis: The Academic Affairs Committee recommended the approval of the establishment of a Ph.D. degree program in Oral Biology.

WHEREAS members of the Graduate Faculty associated with the College of Dentistry have proposed a Ph.D. program in Oral Biology; and

WHEREAS it is critical that graduate training programs be developed to focus on the key relationships between biological investigation and clinical practice; and

WHEREAS there is an increased appreciation for the role of the biological sciences in dentistry; and

WHEREAS the relatively low level of biomedical research oriented towards the oral system has retarded the advancement of biologically-based therapies for oral disease; and

WHEREAS a major barrier to substantial progress in treating oral disease has been the dearth of scientists that also have a meaningful understanding of clinical dentistry; and
May 3, 1990 meeting, Board of Trustees

NEW DEGREE PROGRAM (contd)

WHEREAS Ohio State is one of two institutions in the State of Ohio charged with the education of oral health practitioners and with the advancement of dental science in Ohio, but there is no Ph.D. program in Oral Biology in the State of Ohio; and

WHEREAS the Ph.D. degree program in Oral Biology has been recommended by the Council for Research and Graduate Studies and approved by the University Senate at its April 7, 1990 meeting:

NOW THEREFORE

BE IT RESOLVED, That the proposal to establish a Ph.D. degree program in Oral Biology is hereby approved.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

ESTABLISHMENT OF NEW DEPARTMENT

Resolution No. 90-110

Synopsis: The Academic Affairs Committee recommended the approval of the establishment of the Department of Emergency Medicine in the College of Medicine.

WHEREAS a number of faculty members of the Department of Preventive Medicine have requested the formation of a Department of Emergency Medicine in the College of Medicine; and

WHEREAS creation of a separate department of Emergency Medicine would have the approval of the remaining faculty members of the Department of Preventive Medicine; and

WHEREAS Emergency Medicine has been a specialty area since the late 1970's and has a body of knowledge distinct from Preventive Medicine; and

WHEREAS other units of Emergency Medicine within the country have been moving toward departmental status; and

WHEREAS recruitment of both faculty and students will be enhanced by the departmental status of Emergency Medicine; and

WHEREAS nine regular faculty and three regular clinical faculty of the Department of Preventive Medicine will be permitted to transfer to the Department of Emergency Medicine; and

WHEREAS the University Senate has approved the establishment of the Department of Emergency Medicine, created within the College of Medicine, as a tenure initiating unit on April 7, 1990:

NOW THEREFORE
May 3, 1990 meeting, Board of Trustees

ESTABLISHMENT OF NEW DEPARTMENT (contd)

BE IT RESOLVED, That the proposal to establish the Department of Emergency Medicine in the College of Medicine, effective July 1, 1990, is hereby approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY
Resolution No. 90-111

Synopsis: The Academic Affairs Committee recommended amendments to rule 3335-5-19 and 3335-5-4811 of the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on March 3 and April 7, 1990, as follows:

AMENDED RULES

3335-5-19 Faculty.

As used in these rules the term "faculty" shall include persons appointed by the board of trustees with regular, regular clinical, auxiliary, and emeritus faculty titles on full- or part-time appointments, with or without salary.

(A) "Regular faculty": persons with the titles of professor, associate professor, assistant professor, and instructor who serve on appointments totaling fifty per cent or more service to the university.

(B) "Regular clinical faculty": persons with the titles of professor of clinical (department or college), associate professor of clinical (department or college), assistant professor of clinical (department or college), and instructor of clinical (department or college), who serve on appointments totaling fifty per cent or more service to the university. Regular clinical faculty appointments are made only in the college of dentistry, the college of optometry, the departments of veterinary clinical sciences and veterinary preventive medicine in the college of veterinary medicine, and the following departments in the college of medicine: anesthesiology, emergency medicine, family medicine, internal medicine, neuroscience, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, physical medicine, preventive medicine, psychiatry, radiology, and surgery.
AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

The number of persons holding regular clinical faculty titles in each department or college cannot be greater than one-third the number of persons holding regular faculty titles in that department or college. Individuals appointed to the regular clinical faculty are limited to participating in governance at the departmental and college levels, but may not participate in promotion and tenure matters of regular faculty.

Balance unchanged.

3335-5-4811 Fiscal committee.

(A) Membership.

The fiscal committee shall consist of sixteen members.

(1) Eight regular faculty members.

(a) Six regular faculty at least two of whom are members of the senate, elected by the faculty council. The term of service is three years.

(b) Two regular faculty appointed by the president. The term of service is three years.

(2) Four students.

(a) One graduate student selected by the council of graduate students. The term of service is two years.

(b) One professional student selected by the inter-professional council. The term of service is two years.

(c) Two undergraduate students at least one of whom is a member of the senate, selected by the undergraduate student government. The term of service is two years, and one member shall be appointed each year.

(3) Two staff members appointed by the president for three-year terms.

(4) Two administrators appointed by the president. These members are non-voting.

Balance unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Mr. Shumate:

Mr. Chairman, I would just like to note that I have made a request, and the Provost has agreed, that as a matter of general procedure when the Board votes on Rule changes, I have requested that there be an impact statement prepared for the Board before we enter into those votes. I would like to ask the Secretary to monitor that.
May 3, 1990 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

UNIVERSITY HOSPITALS BOARD APPOINTMENT

Resolution No. 90-112

Synopsis: The Academic Affairs Committee recommended the confirmation and approval of a nominee to the University Hospitals Board.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

WHEREAS the term of a general public member of the Hospitals Board has expired:

NOW THEREFORE

BE IT RESOLVED, That the following nominee be approved as a general public member of the University Hospitals Board, effective immediately, for a term ending April 30, 1993:

Leonard J. Immke

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

HOSPITALS BOARD APPOINTMENT

Resolution No. 90-113

Synopsis: The Academic Affairs Committee recommended the approval of emeritus status to a Hospitals Board member.

WHEREAS pursuant to bylaw 3335-93-01 of the University Hospitals Board Bylaws, the Board of Trustees may designate emeritus Hospitals Board members; and

WHEREAS Morris S. Rosenblum, M.D., is an alumnus and long-time ardent supporter of The Ohio State University and its College of Medicine; and

WHEREAS having served three full terms as a member of the Hospitals Board he has brought honor to himself and to his alma mater; and

WHEREAS his dedicated service, commitment and contributions to the Hospitals Board have been noteworthy:
NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Hospitals Board and the President, the title of Hospitals Board Member Emeritus be conferred upon Dr. Morris S. Rosenblum, effective May 1, 1990.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

Honorary Degrees

Background

Hildegard E. Peplau

Dr. Hildegard E. Peplau is Professor Emerita and former Director of the Graduate Program, Psychiatric Nursing and College of Nursing, Rutgers, The State University of New Jersey. That tenure involved 20 years of teaching, research, and service. Her career, spanning a half-century, began at the Pottstown Hospital Training, School for Nurses in Pennsylvania in 1931. Shortly after, she studied at Bennington College with outstanding scholars in the behavioral sciences, such as Eric Fromm and Frieda Fromm-Reichman, and was awarded a B.A. from Bennington in 1943. After an army tour of duty during World War II, she studied at Teachers College, Columbia University, and received the M.A. and Ed.D. degrees. This placed Dr. Peplau in the very first, yet very small, group of nurses prepared to teach advanced psychiatric nursing.

In 1952 her book, Interpersonal Relations in Nursing, became the first modern nursing theory. In that work she developed conceptual and operational definitions of phenomena critical to practice; thereby she "invented" the field of modern psychiatric nursing by identifying a body of knowledge basic to the practice of psychiatric nursing and, in fact, basic to nursing itself. Her view of the interpersonal nature of the nursing transaction has been widely disseminated throughout the world. It is taken as second nature by all nursing students and practitioners today. Her theoretical formulations made an enormous difference to patient care since it enabled nurses to go beyond impression and move toward understanding of patients and family interaction. Most, if not all, nursing theories that guide practice, particularly psychiatric nursing practice, have their roots in Peplau's work.

Dr. Peplau has lectured extensively throughout the world and her innovative graduate programs have been widely replicated. Graduates of her programs and others whom she has mentored have become leaders in the fields of psychiatric nursing and mental health. Dr. Peplau has had a great impact on the development of psychiatric nursing worldwide. She generated new ways of thinking and analysis pertinent to psychiatric nursing. Her teaching at the University of Leuven (Belgium) created a new direction for many European nurses in their approach to the needs of the mentally ill.

Dr. Peplau was a formal and informal consultant to many of the leaders at the National Institute of Mental Health, the National League for Nursing, the American Nurses' Association, the International Council of Nurses, the World Health Organization, and other national and international institutes, associations and organizations. She held office, provided consultation and advice, suggested new directions and was tireless in her efforts to establish new ways to treat the mentally ill and to educate their care providers. She is recognized for having influence in policy matters that affect all patients and nurses, not only the group within psychiatric practice.
Dr. Peplau's recent scholarship focuses on the discipline of nursing. These presentations and publications on the art and science of nursing have provided sustained leadership and direction for nursing's contributions to society. She has influenced the course of development in the College of Nursing at The Ohio State University through her visiting professorships. Her presence has had great influence on the scholarly work of faculty and students and the development of the doctoral program.

Dr. Peplau's contributions to the discipline of psychiatric nursing, the nursing profession as a whole, and the betterment of humankind are unmatched.
May 3, 1990 meeting, Board of Trustees

DEGREES AND CERTIFICATES - SPRING QUARTER COMMENCEMENT (contd)

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on June 8, 1990, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS Resolution No. 90-116

WHEREAS under Chapter 3335.09 of the Ohio Revised Code the Board of Trustees has the legal authority to appoint and fix the compensation of the President and faculty/staff of the University; and

WHEREAS Dr. Edward H. Jennings announced late last year his decision to leave his position as President of The Ohio State University and return to the faculty; and

WHEREAS the Board of Trustees warmly congratulates him on his splendid accomplishments on behalf of the University and supports his decision to seek this change:

NOW THEREFORE

BE IT RESOLVED, That a Notice of Appointment be issued to Dr. Edward H. Jennings specifying the rank of Professor in the Academic Faculty of Finance for a 9 month appointment commencing Autumn Quarter 1990 at a salary of $119,660; and

BE IT FURTHER RESOLVED, That pursuant to prior action of this Board, that prior to July 1, 1990, a payment be made to STRS on behalf of Dr. Jennings, in an amount equal to that which is sufficient to purchase up to five years of retirement service based on prior qualifying teaching in public service, said fringe benefit payment to be made from unrestricted monies received by the University pursuant to Section 3345.16 of the Revised Code; and

BE IT FURTHER RESOLVED, That for Dr. Jennings, faculty employment and a retirement arrangement providing for supplemental income as set forth in the letter recommended by the Personnel Committee and included in these minutes be approved, and that payment for the annuity contract and incidental tax obligations referred to in the letter is to be made from unrestricted monies received by the University pursuant to Section 3345.16 of the Revised Code; and

BE IT FURTHER RESOLVED, That the Secretary of the Board be authorized to implement the changes/actions set forth in this resolution; and

993
May 3, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

BE IT FURTHER RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the April 6, 1990 meeting of the Board, including the following Changes in Title, Appointment, Reappointment of Principal Administrative Officials, Reappointment of Chairpersons of Departments and Directors of Center, and School, and Emeritus Titles as detailed in the University Budget be approved.

Changes in Title

<table>
<thead>
<tr>
<th>Name</th>
<th>GARY L. FLOYD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Dean</td>
</tr>
<tr>
<td>College:</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Effective:</td>
<td>April 1, 1990</td>
</tr>
<tr>
<td>Salary:</td>
<td>$99,960.00</td>
</tr>
<tr>
<td>Present Position:</td>
<td>Acting Dean, College of Biological Sciences and Professor, Department of Botany</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name:</th>
<th>DAVID HOTHERSALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Director</td>
</tr>
<tr>
<td>Office:</td>
<td>University Honors Program/Academic Affairs</td>
</tr>
<tr>
<td>Effective:</td>
<td>September 1, 1990</td>
</tr>
<tr>
<td>Salary:</td>
<td>$72,360.00</td>
</tr>
<tr>
<td>Present Position:</td>
<td>Professor, Department of Psychology</td>
</tr>
</tbody>
</table>

Appointment

<table>
<thead>
<tr>
<th>Name:</th>
<th>BHARAT BHUSHAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Professor (Ohio Eminent Scholar in Mechanical Systems)</td>
</tr>
<tr>
<td>Department:</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Effective:</td>
<td>January 1, 1991</td>
</tr>
<tr>
<td>Salary:</td>
<td>$102,000.00</td>
</tr>
<tr>
<td>Present Position:</td>
<td>Senior Engineer/Manager, Head-Disk Interface, Research Division, Almaden Research Center, IBM Corporation, San Jose, California</td>
</tr>
</tbody>
</table>

Education:

1970, B.E., Birla Institute of Technology and Science, India
1971, M.S., Massachusetts Institute of Technology
1973, M.S., University of Colorado
1976, Ph.D., University of Colorado
1980, M.B.A., Rensselaer Polytechnic Institute
1990, Doctor Technicae, University of Trondheim, Trondheim, Norway

Experience:

1981 - Present
IBM Corporation, San Jose, CA, and Tucson, AZ
Advisory Engineer, Advanced Tribology, General Products Division Laboratory (1981-1985)
Development Engineer/Manager, Media Mechanical Process/Analysis, General Products Division Laboratory (1985-1986)
Senior Engineer/Manager, Head-Disk Interface, Research Division, Almaden Research Center (1986 - Present)
PERSONNEL ACTIONS (contd)

Appointment (contd)

Experience: (contd)

1989 Visiting Scholar, Departments of Mechanical Engineering, Chemistry and Materials Science and Mineral Engineering, University of California, Berkeley, CA

1980 - 1981 Research Scientist, Advanced Engineering and Analysis, Technology Services Division, SKF Industries Inc., King of Prussia, PA

Physical Tribologist (1976-1977)
Senior Engineering Scientist (1977-1978)
Program Manager (1978-1980)

1975 - 1976 Instructor, Department of Mechanical Engineering, University of Colorado, Boulder, CO

1973 - 1976 Expert Investigator, Automotive Specialists, Denver, CO

1971 - 1972 Research Staff Member, Material Processing and Surface Laboratories, Massachusetts Institute of Technology, Cambridge, MA

Reappointment of Principal Administrative Officials

JULIUS S. GREENSTEIN, Dean/Director, Newark Campus, effective July 1, 1990, through June 30, 1993, pursuant to rule 3335-3-17 of the Administrative Code.

RONALD A. WRIGHT, Dean, College of Veterinary Medicine, effective July 1, 1990, through June 30, 1995, pursuant to rule 3335-3-17 of the Administrative Code.

Reappointment of Chairpersons of Departments and Directors of Center and School

April 1, 1990 through June 30, 1994

Biochemistry George A. Marzluf

July 1, 1990 through September 30, 1990

Industrial Design Joseph A. Koncelik
PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments and Directors of Center and School (contd)

July 1, 1990 through June 30, 1991

School of Music
Donal Harris*

July 1, 1990 through June 30, 1994

Art
Robert Shay
Veterinary Pathobiology
Charles C. Capen

September 1, 1990 through August 31, 1994

Biotechnology Center
Pappachan E. Kolattukudy

*Acting Director

Emeritus Titles

ERIKA E. BOURGUIGNON, Department of Anthropology, with the title Professor Emeritus, effective July 1, 1990.

LOUIS MALSPEIS, College of Pharmacy, with the title Professor Emeritus, effective May 1, 1990.

WAYNE B. PARRISH, Department of Molecular Genetics, with the title Associate Professor Emeritus, effective April 1, 1990.

RALPH P. CARIFA, College of Optometry, with the title Assistant Professor Emeritus, effective July 1, 1990.

Mr. Scott:

This resolution defines the change in individual assignment for the President, as well as approves the salary/benefit entitlements upon his return to the faculty September 1, 1990.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LXVI for Personnel Committee letter, page 1053.)

--0--
May 3, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

Mr. Chairman, this morning in the Student Affairs Committee we heard a report from Rebecca Parker on Residence Life Programs. She is the Associate Director of Residence Life, which is a unit in the Office of Residence and Dining Halls. The special programs, as well as the daily operations of that unit are grounded in the concept of Community Development. Basically, this refers to the intentional design of parameters and programs that allow students and staff to share in the formation, monitoring, and evaluation of residential communities. To operationalize that concept, a number of specific strategies are employed. They begin with an intentional orientation of students to the Residence and Dining Halls community. They work with students to establish guidelines for group living and train staff to provide relevant programming. And they work with both staff and students to blend the parameters with the program opportunities, in an effort to manage behavior in the community.

The students are selected and trained, as leaders, to work closely with other students and staff to share in the decision-making processes in the community. This level of involvement may come in one or more of a number of arenas. Students might choose to become involved in a hall government, an area government, a Black Student Association, or the Residence Halls Advisory Council which serves as an umbrella organization for those previously mentioned. Students may choose to influence specific interest areas in Residence Life, or more broadly in Residence and Dining Halls, by serving on a task force or committee. Students may assist in monitoring the community standards by serving on one of the Residence and Dining Halls peer boards in the University Judicial program. Students may also choose from a variety of staff positions in Residence and Dining Halls. Student leader training is often accomplished through structured training programs like the Community One Leadership Conferences. They may also receive informal training through any number of programs developed to help them grow as well-rounded adults.

Staff members are selected through well established and discriminating processes designed to assure appropriate experiences, attitudes, and learning potential sufficient to provide quality service to students. Full time staff members are professionals, usually holding a Masters degree in Student Personnel Work, Counseling Psychology, Educational Administration, or a related field. Assisting these professionals, are graduate students in Student Personnel Work, Psychology, Black Studies, or Social Work. Reporting to these individuals, are hundreds of student staff members in helping or administrative roles. Staff members are provided with information and training that enhances their ability to work with students and other Residence and Dining Halls and University employees on the establishment and maintenance of productive communities.

Our student leaders are stellar, often making major impact at regional and national levels. Our staff are among the best in the nation. Together, they help to form the Residence and Dining Halls community.

The Board should understand that in these Residence Life Programs, generally one group consists of six to eight students from different nationalities and different backgrounds. To unite these students to work and live together is undoubtedly a monumental task, but Ms. Parker is doing an excellent job.
May 3, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Barone: (contd)

We also heard from the student government leaders:

- Mr. David Tonnies:

Good morning, Trustees and guests. Let me introduce myself, my name is David Tonnies and I am a second-year medical student. I am from a little town outside of Youngstown, Lake Milton, Ohio. I was an undergraduate here for four years, majored in electric genetics, with a minor in zoology, so I have that bio-sci and medicine background going for me. While I was an undergraduate here, I worked in the Colleges of the Arts and Sciences as an administrative assistant. For the last two years I have worked at University Honors Center as an evening supervisor. During my years here I have been involved with many campus organizations: USG, Arts and Sciences Student Council, Council on Admissions and Registration, and the University Senate, just to name a few. So I think that I have a good feel for the student body. That gives you a little bit of my background, so you know where I am coming from.

I am looking forward to this upcoming year as the IPC president. I think my work is cut out for me. Steve Dibert has done a lot in the last two years to bring IPC forward in the eyes of many people, but I think we still have a long way to go.

Right now the biggest concern facing professional students, obviously, is tuition and the right, I feel, for the professional student to have an affordable education here in the State of Ohio. The rumors of having a second straight year with a 15 percent tuition increase are very disconcerting. Future earnings do not pay yesterday's or today's bills. You can't keep using the argument that our potential is going to help us out right now. While one can dream of a tuition freeze -- and sometimes I do wake up hoping that maybe this is the year of a tuition freeze -- professional students at OSU hope that our tuition can also be capped at least at the 7 percent that the undergraduate's are capped at. We hope that our lobbying efforts will prove successful and that the Board will support our efforts.

Mr. Teaford:

I think you will find, later at the Board meeting, that we didn't get to a freeze, but we sure don't have a 15 percent increase as the goal.

Mr. Tonnies:

Was that earlier today, or last night?

Mr. Teaford:

No. The President will include that in his remarks later in the day.

Mr. Barone:

I think you will be able to report happier results after the President discusses the budget at today's meeting.
May 3, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Tonnies:

That is very nice to hear. Another thing that we are going to work on in the upcoming year is increasing professional student involvement in campus life. That is something that every student government works on every year. I hope that I can bring some fresh ideas to that problem and work with the other student government presidents in the upcoming year to see what we can do.

The professional students want to work with the graduate students and organize an award ceremony, similar to PULA which is next week for the undergraduate leadership awards. It wouldn't be the exact same thing, but we want to recognize some of the professional and graduate students who are active in the community. We think that is one way of showing that involvement in the campus and the community is something we all want to see.

The Interprofessional Council will have a meeting in the next week to establish our goals for the upcoming year. I have yet to meet with the other professional student representatives so really these are all my opinions and ideas right now. Next week we will have the entire council meet. Thank you, again. I am honored to be working with everyone here and I look forward to the upcoming year. Any questions?

Mr. Shumate:

What is the process of the selection for the Interprofessional Council President?

Mr. Tonnies:

Each of the professional schools choose two representatives and each school is different. Our medical student council has an election and anybody in the medical school can run, you don't have to be a representative of the council. The law school does it a little differently. Two people run from the student body in general. Then, from those ten representatives, the officers are chosen. When I was put in the slot of president, somebody has to fill my seat, so now I have to go back and fill that. That is how it works. It is not a campus-wide election like the undergraduate student government. Any other questions? Thank you.

Mr. Barone:

Thank you, David. I would like to call on Luke Evans.

Mr. Luke Evans:

Good morning. I would just like to talk about three basic areas. First, I would like to pass around a program from the Graduate Research Forum that Benetta Lucius, our president-elect, coordinated. She did an outstanding job. We invited fifty-five graduate students out of 100 to participate in this event. It is an academic event. We had approximately seventy-five faculty who participated as judges to determine which presentations were the most outstanding. The outstanding research awards were for $500.00 and were awarded to 10 graduate students -- they can sorely use it. We also awarded nine honorable mention awards of $100.00. We concluded this event at the Faculty Club with an awards luncheon. And from every comment that I heard, it was very well received. Everyone was quite enthusiastic about the event. This is our annual event and each year we think it keeps getting better and better.
STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

Other universities around the country are modeling what we are doing here. We were one of the first ones in the country to do this. What this event does -- of course, many of you have probably heard this before -- it provides graduate students an important opportunity and experience in presenting their research in a conference-like format. It is a learning opportunity. So this can only go toward enhancing the quality of graduate education here at Ohio State.

In the Council of Graduate Students we have formed an ad-hoc Quarter Evaluation Committee. This is, I know, a topic that has come up many times over the history of Ohio State. It seems that it is a constant complaint. I suppose perhaps because most graduate students come from schools that are on semesters. But most of us tend to believe that the semester systems would better serve the teaching needs and the learning needs of students at this University, both undergraduate and graduate.

We are in the process of gathering information from other universities. We have information from Michigan State, which is switching to semesters. We are in contact with other universities who have recently switched, as well as looking at all of the archival information here at Ohio State on the discussions that have taken place. We want to be well-informed. We will be using the summer term to review a lot of the information and evaluate the reasons why some schools switched -- all the ramifications, from administrative to pathological. We hope that by the end of the summer term we will have some good reasons for switching. We have already come across reasons why some schools switch to semesters, but they are not very good reasons. If they did switch, we would like it to be for good reasons. I was just speaking to a professor from the University of Georgia. Their university is switching right now from quarters to semesters. One of their reasons for switching to semesters is because they want to be a fine research institution like Ohio State.

The quarter system, or whatever academic term it is, doesn't make too much difference as far as the research mission is concerned, but we think that it has a tremendous impact on the teaching side. Schools such as Stanford, Chicago, and Northwestern are on a quarter system, but they have a much smaller student population. Maybe their faculty are more accessible. Here, we have a very large institution, and we think that the semester may be a little more appropriate for an institution of this size. As Dave remarked to me one time, "the more weekends that exist before a midterm or final exam, the better." He means the more time to study the better.

Finally, on the issue of the tuition increase. We know that it is coming, but we don't know in what amount. We hope that you will keep in mind that any increase is going to greatly affect those who depend most on an education to achieve their career goals -- those from the middle-class, born in the middle-class or born in the working-class, who are very intelligent and can be of great use to this country.

Mr. Teaford:

You missed it, but we mentioned to David, that you will find that it is a lot better than you think.
May 3, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans:

Thank you.

Mr. Barone:

I would like to call on David Straub.

Mr. David Straub:

I have a few things that I would like to discuss, but first I would like to introduce the president-elect, Mike Clark, of the Undergraduate Student Government. May 16, he will be taking office and that will be the day I step down.

I want to discuss a few things that are going on in student government at this current time. Right now it is very active. I thought it would be slow in the spring, but it is very hectic and busy. First, we are in the process of transition which happens every spring. We are trying to orientate the next officers as to what things to do and what things not do and how to become more efficient. Hopefully, every year student government can become more efficient through the experiences of the past leadership, and that is one of my goals. Mike and I have set up meetings where we will be discussing things that should be done and how they should be handled and how they may be better handled. So those are some of the things going on.

We are in the process of finishing up the plans for the Undergraduate Student Government Banquet. It occurs once a year for all the students within student government that have been working diligently for student causes -- most of the time unrecognized. This is one time where we have the opportunity to give awards to those members who have done outstanding things on behalf of student causes this past year, although have been greatly unreported by some sources. So we will be honoring those students at this banquet on May 10.

One of the other programs that we are working on is a farewell program for President Jennings. We are in the process of obtaining some interesting information on the President. If you have any information, I am very interested in it for our program. Please come see me and we will not provide the source of the information. I have something that I have obtained and will pass it around, but I prefer that the President not see this. This was from a few years ago, when he was president of another university. That is kind of what I am looking for, that kind of information. This is a student send-off party, a farewell for President Jennings, and it should be an interesting time. It is May 10, from 3:00 to 5:00 p.m., if you are interested attending. It is kind of a light hearted, fun event, and we are currently informing students about it.

I would like to conclude my report with just a philosophy on student government, the student government system, and different attitudes that some people take regarding student representation. I think it is fundamental that students who represent have the opportunity to represent. I think that is a fundamental issue. The other issue along side that is whether they represent in a quality nature or not. At least during my term in office, I have seen students that represent very well, and I have seen students that do not understand the concept of representation. But the student government stands very strongly on the issue of opportunity for representation. It is very important that students have the opportunity throughout the years to represent.
May 3, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

It will save the university from not knowing how students feel, thereby keeping the university and students out of precarious situations. It is just fundamental that this opportunity of representation continue and that the student government become as democratic as it possibly can with its election procedures. We strive strongly to encourage students to participate in the elections, as well as to get involved in the committee work that is available for them.

Student government has had a bad reputation because of the lack of poor voting in the elections. I think the key is that the student population has the opportunity to vote in these elections. It should be encouraged by all at this University. Students should participate in the government system from the student trustee positions, down to assembly representatives, and committee representatives at the University. It is the only way that students can become better represented at this University. We are working and have worked this entire year to improve that and will continue to do so. I just think it is fundamental that we have the opportunity to be represented whenever possible.

That concludes my report. I have enjoyed reporting to you throughout this year. Thank you.

Mr. Barone:

Any questions?

Mr. Teaford:

I am always amazed by the rap that student governments get, in terms of not being important in those kinds of things. The committees of the Faculty Senate include, in virtually every phase, significant student involvement. And anybody who thinks that the student government is not important is really ignorant, because they are very significant. David sits with us on the committee to choose the next president. So those who say that -- and unfortunately the local press on campus says that -- and I think that is quite, flat out ignorant.

Mr. Barone:

We hope that you are around, Dave, for your successor to help him come up with a way to make people vote.

Mr. Straub:

It is a real dilemma -- the voting issue. It is a fundamental issue across-the-board in the 18 to 24 age bracket. The voter turnout for those individuals is low even in presidential elections for the United States. What I always get a kick out of is these same people say, "it is not important to vote for the president, my vote doesn't matter in the election, or the president doesn't do anything." The very same people can vote in a local election and I hear them say, "I don't vote because they don't do anything." I would like to know who in government doesn't and where do the taxes go, if that is the case. I don't know what the solution is. I thought that we could work on that, and we have, but there is a lot of ground to be made up. There is a great deal of apathy from this voting block.
May 3, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Barone:

It is a difficult problem, and it is a universal one.

Mr. Straub:

Yes. Ohio State is not the only university or student government that has the low voter turnout in their student government elections. There are different student governments with different student formats. As Dave mentioned, they have more of a parliamentary procedure type of election for their president, whereas the undergraduate student government has an open election. The University of Iowa has a closed parliament system and Indiana has an open election.

I have been in contact with all the student leaders of the Big 10, discussing ways we could improve voter turnout. One of the ways that I found may be helpful is the development of a party system, within the student government system, that would stand firmly on different issues and take different sides. I find that hard to do because I think that most of the issues are fundamental issues that need to be dealt with. I don't think you can draw a party line on issues of tuition, accessibility to education, parking, and campus safety. But some universities do that and they are successful in increasing voter turnout.

Mr. Barone:

I hope your successor has the enthusiasm that you have. In as much as this is Dave's last meeting at this time I would like to read to you an expression of appreciation:

EXPRESSION OF APPRECIATION

Resolution No. 90-117

WHEREAS David Straub has served as president of the Undergraduate Student Government during the past year; and

WHEREAS he has carried out his assignments in an outstanding manner; and

WHEREAS his leadership in representing the interest of students has been positive in nature as has been his communication with both the Board of Trustees and the Administration; and

WHEREAS this Board recognizes that David has worked diligently and tirelessly in order to bring matters and concerns of special interest to students to the attention of the Board:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to David Straub its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
May 3, 1990 meeting, Board of Trustees

AGRICULTURAL AFFAIRS COMMITTEE

Mrs. Bowser:

The Agricultural Affairs Committee met this morning with Dr. Winston Bash. He gave us a summary and background on the organization of the Food Safety Hotline which has been operating since December. It is a cooperative effort with industry and the University. As Dr. Warmbrod pointed out, it is a perfect example of the land-grant tradition at Ohio State which is service, teaching, and research. We are able to pass this research out to the consumer through the Hotline. Dr. Bash had some very interesting questions asked over the last several months and he is very enthusiastic about the project. It is a low cost program that is costing the University nothing at this point, and seems to be a most worthwhile endeavor. That concludes my report.

--0--

FISCAL AFFAIRS COMMITTEE

Mr. Kessler:

The Fiscal Affairs Committee met this morning and heard the following presentation of the proposed budget guidelines of the 1990-91 as presented by President Jennings.

President Jennings:

As we advance through the normal budget cycle of this University, it is appropriate that I present to you today the budget plans for 1990-91. A resolution on the operating budget for the fiscal year beginning July 1, 1990, will be brought before this Board in June.

Next year represents the second year of a biennium in which budgets are -- and will remain -- extremely tight. Support from the State represents an expected increase of less than 5.4 percent, falling significantly below what continues to be needed to adequately advance our goals of access and excellence. This has placed direct and increasing pressure on tuitions, as well as on keeping costs low throughout the University.

Under such budget pressures, it might be suggested that we submit a budget that merely maintains the status quo. However, the status quo is simply unacceptable at The Ohio State University -- and should be for the State of Ohio. We can ill afford to reverse the momentum that has brought increasing recognition of the excellence of The Ohio State University. To restrain the valuable human resources of creativity and curiosity would be disastrous to the future well-being of this State.

Furthermore, the State seems not to appreciate the importance for Ohio and its citizens of having an internationally prominent comprehensive research university. In a time of resource constraints, it becomes too easy to opt for uniformity among all institutions, rather than focus on the unique needs and contributions of each institution.
The level of State support for this biennium requires that the University make some difficult fiscal decisions about tuitions effective Autumn 1990. Last year, the State of Ohio capped tuitions, and we will follow legislated caps. But, the State did not live up to its obligations and seriously underfunded The Ohio State University, an institution with a long tradition of low tuitions in this state. If the State had funded Ohio State at the level of their own tuition assumptions, this University would have another $22 million annually to address critical needs.

The legislated cap on increases in the undergraduate instructional fee of $120 per year defines our increase for 1990-91. That, along with a $33 increase in the general fee, results in a total undergraduate tuition increase of 7 percent, or $153 over three quarters.

In the case of graduate and professional students, the increases this past Autumn Quarter were almost 15 percent. It is most unfortunate that this substantial increase was necessary, and we remain concerned about its impact on our students. Even though the increase did not change Ohio State’s ranking in the Big Ten for graduate and professional students, it did place an exceptional burden on individual students. This year we are committed to doing better, and I am recommending an 8 percent tuition increase for resident graduate and professional students effective Autumn Quarter 1990.

We will continue our plan to increase the proportionate share paid by non-resident students. Therefore, I am recommending a 12.5 percent increase in the non-resident tuition surcharge for undergraduate, graduate, and professional students.

In addition, I am requesting that earnings areas continue to keep costs and rate increases low, with a target of a less than 6 percent average increase University-wide. Residence and Dining Halls increases have been recommended at 4.6 percent for undergraduates and 3.4 percent for graduate students, with room-only contracts for graduate students increasing only 2.3 percent. The reasonableness of these adjustments reflects effective actions to hold down costs, and students receive the benefits through lower rate adjustments. Efforts to reduce costs must continue in all areas, including earnings areas.

Our projections indicate that revenues from State support and from the suggested tuition levels will provide a composite increase in general fund revenues of 6.1 percent. As a result, the University must continue to control costs and reallocate funds. A high priority, of course, will be adding proportionate percentage increases in student financial aid support to cover the recommended tuition increases, as well as continuing our efforts to improve the process of awarding this support.

Another priority must be maintaining faculty and staff salaries at competitive levels. While our recommendations are not as much as those recommended by the Faculty Compensation and Benefits Committee and the University Senate Fiscal Committee, they represent the level achievable within the available resources. My recommendation for salary increases for faculty and staff is 2 percent across-the-board; 4 percent selectively distributed on the basis of merit; and a central pool of 0.5 percent to address issues of equity, excellence, and market.
This also is an appropriate time to return Graduate Assistants to the regular budget cycle. Their salary changes had been advanced to January 1 from the usual time of July 1, when faculty and staff salaries are adjusted. To get back on schedule, I am recommending an across-the-board increase of 2.5 percent effective July 1, to be added to the 6.5 percent given this past January. This combined 9 percent increase will then be in effect until July 1, 1991, at which time the Graduate Assistants will have their salaries again reviewed along with faculty and staff.

Of substantial concern when considering compensation for next year is the matter of benefits. As you recall, last year faculty and staff began sharing the payment of health care premiums, with a goal of their share reaching 25 percent of the premium in fiscal year 1992-93. Last year the share was 15 percent, and the share for 1990-91 becomes 18 percent.

Fortunately, the changes in the University’s health benefits program have demonstrated initial success in controlling costs. Individual efforts by our faculty and staff members have greatly assisted in holding down the growth of health care costs during this fiscal year. While attempting not to react too optimistically based on nine months performance, we do believe we can use these results to assist our compensation levels.

Therefore, while the employee share is increasing as planned, the total increase in cost to individual faculty and staff members will be less than $5.00 per month for family coverage, and lower still for single coverage. This is significantly below our projections of a year ago, and is substantially less than the rate increases currently being experienced at other institutions.

Furthermore, in recognition of the reduced rate of increase in health care expenditures, I also will request that the Vice President for Personnel Services initiate a health care premium holiday in the month of September. There will be no payment of medical benefit premiums by faculty, staff, or the University that month. The institutional contributions not made will result in one-time general funds of approximately $1.2 million which cash will be distributed to colleges and offices to address priority needs, such as supplies and equipment. There will be no annual rate increase in the supplies and equipment budgets.

The 1990-91 budget will provide use of the capital budget equipment funds and Research Challenge funds, as well as $2 million in recurring funds and $4 million dollars in cash to address special needs of the University.

As was done this year, we will have another 1 percent reallocation for all general funds and earnings areas in order to support high priority needs within those areas. The deans and vice presidents will define the sources of this 1 percent within their base budgets, and will determine the application of these funds to address their highest priorities.
The 1990-91 University budget which I will present for your approval in June will be in accordance with these guidelines. While resources again will be limited, the budget will reflect the innovation and energy of our faculty members, staff members, and students who remain undaunted by budget constraints. There is at this University a vigor and a spirit of quality that will continue to carry forward Ohio State's reputation for excellence.

Thank you, Mr. Chairman and I will be glad to answer any questions at this time.

Mr. Scott:

Mr. Chairman, I would just like to add several comments to what the President has already stated. I believe it is probably the first time in the history of any major university, that I know of, that a premium holiday with respect to medical care premiums has been declared. I think in large measure this is due to the splendid, outstanding cooperation and support we received last year, not only from the administration, the President, the Board, but the faculty and staff. In order that we might continue to maintain the credibility of the arguments that we made, we think that it is appropriate and fitting that we should have this premium holiday. In the meantime, it will allow the University to have flexibility which is absolutely essential if we are to be able to respond to any dramatic increases that pop up unanticipated in our health care programs in the next fiscal year.

Mr. Kessler:

The Committee also heard a follow up report by Mr. Nichols on the bond issue sales, which totaled $54.3 million at an interest cost of 7.08 percent.

Mr. Ihrig presented the third quarter budget report which showed minor changes from the approved budget. Total resources show a net increase of $900,000 while projected uses show a decrease of $620,000.

(See Appendix LXVII for The Ohio State University 1989-90 Current Funds Budget, 3rd Quarter Report, page 1057.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

**Waivers of Competitive Bidding Requirements**

**January-March 1990**

**Background**

During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 41 waivers of competitive bidding requirements. Annual purchases authorized by these waivers total approximately $2,655,200.00. The purchases included:

- Hospitals - Professional Services: $798,000 (5 waivers)
- Hospitals Equipment & Services: $495,836 (11 waivers)
Waivers of Competitive Bidding Requirements
January-March 1990 (contd)

Background (contd)

<table>
<thead>
<tr>
<th>Service Description</th>
<th>Amount</th>
<th>Waivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer Hospital Equipment &amp; Services</td>
<td>212,162</td>
<td>4</td>
</tr>
<tr>
<td>Artists, Art Work, &amp; Speakers</td>
<td>489,807</td>
<td>8</td>
</tr>
<tr>
<td>Teaching &amp; Research Equipment &amp; Services</td>
<td>402,352</td>
<td>9</td>
</tr>
<tr>
<td>Administrative Support Services</td>
<td>131,998</td>
<td>3</td>
</tr>
<tr>
<td>Conference Facilities</td>
<td>125,000</td>
<td>1</td>
</tr>
</tbody>
</table>

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS
JANUARY-MARCH 1990

Resolution No. 90-118

Synopsis: The Fiscal Affairs Committee recommended acceptance of the quarterly report on waivers of competitive bidding requirements.

WHEREAS the Purchasing Policy of The Ohio State University, adopted by the Board of Trustees on September 7, 1984, provides that the President and/or the Vice President for Business and Administration may grant a waiver from competitive bidding in the event of an emergency, when a sufficient economic reason exists, or when the goods or services can be purchased from only a single source, with a report on such waivers to be made quarterly to this Board; and

WHEREAS the Vice President for Business and Administration has submitted a report on waivers of competitive bidding requirements granted for the period of January-March 1990, and the Fiscal Affairs Committee recommends the acceptance of this report:

NOW THEREFORE

BE IT RESOLVED, That the report on waivers of competitive bidding requirements for the period of January-March 1990, is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 90-119

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summary for March 1990.
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of March 1990 be approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR MARCH 1990

<table>
<thead>
<tr>
<th>Source</th>
<th>No. of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>125</td>
<td>$11,341,704.38</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>37</td>
<td>$535,161.00</td>
</tr>
<tr>
<td>Total</td>
<td>162</td>
<td>$11,876,865.38</td>
</tr>
</tbody>
</table>

Establishment of Named Funds

The Charles H. Ackers Cancer and Cardiovascular Research Fund
(Support cancer research and the research work of a distinguished cardiologist) $40,000.00

The William H. Saunders Otolaryngology Endowment Fund
(Support research) $27,003.00

The Michael J. Tomczak Athletic Endowment Fund
(Fund the grant-in-aid costs for a student-athlete who is a member of the varsity football squad, playing at the quarterback position) $25,000.00

The Bernard J. La Londe Transportation and Logistics Scholarship
(Scholarships - College of Business) $16,000.00
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR MARCH 1990 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The John W. and Dorothy Uhl Sawyer Award
(Fund the “Sawyer Award”) $ 15,254.00

The Cardinal Distribution, Inc., Cancer Research
Endowment Fund
(Support cancer research) $ 15,000.00

The Willis T. Kubiac Memorial Fund
(Prove support for the library in the Division
of Orthopedic Surgery) $ 15,000.00

Nu Sigma Nu Alumni Scholarship Fund
(Awards for academic excellence to students in
their second academic year in the College of Medicine) $ 15,000.00

Change in Description of Named Fund

Cynthia Cook Dissertation Scholarship in
Early and Middle Childhood Education
Federal Research Contracts/Grants

$1,150,621.00 - Department of Health and Human Services, National Center for Research Resources, Bethesda, Maryland, General Clinical Research Center, Medicine Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1989 through 30 November 1990. (Project 761196 - Continuation)

$928,701.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Regional Resource Center, Education Administration (T. M. Stephens and L. Magliocca), 1 June 1990 through 31 May 1991. (Project 766183 - Continuation)

$553,192.00 - National Science Foundation, Washington, D.C., Technology Reform and Network Specialist Inservice Training (Transit) Project, Department of Mathematics (F. Demana, B. K. Waits, and T. Ralley) and Department of Educational Theory and Practice (A. Osborne), 1 March 1990 through 30 June 1994. (Project 768165 - New)


$307,720.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Modification of Diet in Renal Disease (MDRD) Study, Department of Internal Medicine (L. A. Hebert), 1 March 1990 through 30 November 1990. (Project 768873 - Continuation)


$280,100.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Ohio Cancer Information Center, Comprehensive Cancer Center (W. A. Newton), 16 March 1990 through 15 October 1992. (Project 768114 - New)

$271,373.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Endotracheal Suctioning in Acutely Ill Adults, Department of Life Span Process (K. S. Stone), 1 April 1990 through 31 March 1991. (Project 765998 - Continuation)

$222,255.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Cornhill), 1 March 1990 through 28 February 1991. (Project 764727 - Continuation)

$199,720.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, RNA Splicing in Neurospora Mitochondria, Department of Molecular Genetics and Department of Biochemistry (A. M. Lambowitz), 1 April 1990 through 31 March 1991. (Project 765596 - Continuation)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$192,080.00 - National Science Foundation, Washington, D.C., A Program on Electronic Structure, Department of Physics (K. G. Wilson), 1 October 1989 through 30 September 1990. (Project 767182 - Continuation)

$180,909.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Neural Control of Human Intestinal Mucosa, Department of Physiology (H. J. Cooke), 1 March 1990 through 31 December 1990. (Project 765037 - Continuation)

$177,037.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Unusual Biologically Active Terpenes, Department of Chemistry (L. A. Paquette), 1 April 1990 through 31 March 1991. (Project 763497 - Continuation)

$163,878.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Pre- and Post-Operative T-Cell Function, Department of Surgery (R. M. Ferguson), 1 February 1990 through 31 January 1991. (Project 766505 - Continuation)

$163,054.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Metabolism of (N-3) Fatty Acids, Department of Physiological Chemistry (H. W. Sprecher), 1 April 1990 through 31 March 1991. (Project 760745 - Continuation)

$152,167.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Mechanism of Phospholipase A2, Department of Chemistry (M. D. Tsai), 1 April 1990 through 31 March 1991. (Project 767369 - Continuation)

$151,886.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Pathway Formation in the Developing Spinal Cord, Oral Biology (R. H. Nordlander), 1 April 1990 through 31 March 1991. (Project 767816 - Continuation)

$144,606.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Non-Nitrogen and Nitrogen Containing Dopamine Drugs, College of Pharmacy (D. D. Miller and N. J. Uretsky), 1 April 1990 through 31 March 1991. (Project 762967 - Continuation)

$142,274.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neuromodulators in Cerebellar Circuitry, Department of Anatomy (G. A. Bishop), 1 March 1990 through 28 February 1991. (Project 763013 - Continuation)

$136,925.00 - National Science Foundation, Washington, D.C., Social Psychophysiology Research Program: Phase II, Department of Psychology (J. T. Cacioppo), 1 March 1990 through 28 February 1991. (Project 767272 - Continuation)

$128,968.00 - National Science Foundation, Washington, D.C., Syntheses and Studies of Selected Metal Carbonyl and Boron-Metal Carbonyl Clusters, Department of Chemistry (S. G. Shore), 1 September 1990 through 31 August 1991. (Project 766824 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)


$123,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, A Numerical and Experimental Investigation of an Innovative and Efficient Energy Release/Storage System, Department of Mechanical Engineering (K. Vafai), 16 February 1990 through 31 March 1990. (Project 767829 - Continuation)

$122,460.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Biologically Active Alkaloids, Department of Chemistry (D. J. Hart), 1 April 1990 through 31 March 1991. (Project 762083 - Continuation)

$120,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Research Program on the Supersonic Throughflow Turboman, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 19 February 1990 through 18 February 1991. (Project 767282 - Continuation)

$116,676.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Feline Retrovirus-Associated Endocrine Dysfunction, Department of Veterinary Pathobiology (J. L. Rojko, L. E. Mathes, and C. A. Brooks), 1 March 1990 through 28 February 1991. (Project 767361 - Continuation)


$98,600.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Wave Interactions at Boundaries Separating Anisotropic Materials, Department of Welding Engineering (L. Adler), 1 April 1990 through 31 March 1991. (Project 764033 - Continuation)

$91,450.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Expression of Granule Cell GABA Receptors, Department of Pharmacology (A. Frostholtm), 1 April 1990 through 31 March 1991. (Project 767411 - Continuation)

$89,073.00 - National Science Foundation, Washington, D.C., The Tectonomagmatic Setting of Early to Middle Jurassic Bimodal Volcanism in the Transantarctic Mountains, Byrd Polar Research Center and Department of Geology and Mineralogy (D. H. Elliot), 1 July 1990 through 30 June 1991. (Project 768162 - New)

$87,399.00 - National Science Foundation, Washington, D.C., Stratigraphy, Paleontology, Structural Geology, and Paleoglaciology of the Late Neogene Glacigene Sirius Group of the Dominion Range-Beardmore Glacier Region of the Transantarctic Mountains, Byrd Polar Research Center and Department of Geology and Mineralogy (P. N. Webb) and Byrd Polar Research Center (D. M. Harwood), 1 June 1990 through 31 May 1991. (Project 768181 - New)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

<table>
<thead>
<tr>
<th>Amount</th>
<th>Agency</th>
<th>Project Description</th>
<th>Principal Investigator(s)</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>$86,000.00</td>
<td>National Science Foundation</td>
<td>Collaborative Research: Joint Studies with Soviet Scientists to Secure Parallel Histories of Climatic Change in Siberia and Alaska</td>
<td>P. A. Colinvaux, Byrd Polar Research Center and Department of Zoology</td>
<td>1 March</td>
<td>28 February</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 768126)</td>
<td>(New)</td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$83,300.00</td>
<td>National Science Foundation</td>
<td>Effects of Ethylene on Nodule Development and Cloning of the Rhizobitoxine Genes</td>
<td>N. K. Peters, Biotechnology Program and Department of Agronomy</td>
<td>1 March</td>
<td>28 February</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 767324 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$83,132.00</td>
<td>Department of Commerce</td>
<td>Department of Standards and Technology, Gaithersburg, Maryland, Physical and Mechanical Properties of Composite Materials</td>
<td>R. H. Wagoner, Department of Materials Science and Engineering</td>
<td>7 February</td>
<td>28 February</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 766671 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$79,532.00</td>
<td>National Science Foundation</td>
<td>Curing of Low Shrinkage Unsaturated Polyester Resins in Reactions Processing</td>
<td>L. J. Lee, Department of Chemical Engineering</td>
<td>1 March</td>
<td>28 February</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 767359 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$77,500.00</td>
<td>National Science Foundation</td>
<td>Molecular Genetics of Extracellular Polysaccharide Synthesis in Erwinia stewartii</td>
<td>D. L. Coplin, Department of Plant Pathology - OARDC and Department of Plant Pathology</td>
<td>1 April</td>
<td>31 March</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 766330 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$77,000.00</td>
<td>National Aeronautics and Space Administration</td>
<td>The Effects of Magnetic Nozzle Configurations on Plasma Thrusters</td>
<td>T. M. York, Department of Aeronautical and Astronautical Engineering</td>
<td>1 March</td>
<td>31 December</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 766488 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1990</td>
</tr>
<tr>
<td>$74,994.00</td>
<td>National Aeronautics and Space Administration</td>
<td>Studies on Electromagnetic Scattering</td>
<td>P. H. Pathak, ElectroScience Laboratory, Department of Electrical Engineering</td>
<td>1 February</td>
<td>31 January</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 763822 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$74,480.00</td>
<td>National Science Foundation</td>
<td>Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Techniques Development and Non-Biological Application</td>
<td>A. G. Marshall, Chemical Instrumentation Center, Department of Chemistry, and Department of Biochemistry</td>
<td>1 October</td>
<td>30 September</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 766684 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$73,500.00</td>
<td>National Science Foundation</td>
<td>Low Temperature Electronic Properties of Conducting Solids</td>
<td>J. C. Garland, Department of Physics</td>
<td>1 March</td>
<td>28 February</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 767331 - Continuation)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
<tr>
<td>$73,167.00</td>
<td>Department of Health and Human Services</td>
<td>Contact Lens Evaluation in Keratoconus</td>
<td>J. T. Barr, College of Optometry</td>
<td>5 March</td>
<td>28 February</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project 768122 - New)</td>
<td></td>
<td>1990</td>
<td>1991</td>
</tr>
</tbody>
</table>
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$72,500.00 - National Science Foundation, Washington, D.C., Electron-Polyatomic Molecule Collisions and Ionization in Intense Fields, Department of Chemistry (C. W. McCurdy), 1 April 1990 through 31 March 1991. (Project 768158 - New)

$70,720.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Scale Elimination in Turbulent Flows, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 January 1990 through 31 December 1990. (Project 768182 - New)

$70,534.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Automated Handling and Assembling of Non-Rigid Objects, Department of Electrical Engineering (Y. F. Zheng), 15 January 1990 through 14 January 1991. (Project 768118 - New)

$69,916.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Measurement of Electromagnetic Scattering by Open-Ended Waveguide Cavity Configurations, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 March 1990 through 28 February 1991. (Project 767840 - Continuation)

$69,838.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, A Flexible Servomotor Driven Mechanical Press with Computer Control for Precision Forming, Department of Industrial and Systems Engineering (R. Shivpuri) and Engineering Experiment Station (T. Allan), 1 July 1990 through 31 December 1990. (Project 767840 - Continuation)

$66,150.00 - National Science Foundation, Washington, D.C., Raman and Spatially Resolved Spectroelectrochemistry, Department of Chemistry (R. L. McCreery), 1 February 1990 through 31 January 1991. (Project 767290 - Continuation)

$60,140.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Novel Ultrasonic Techniques for Interface Studies, Department of Welding Engineering (L. Adler), 1 December 1989 through 30 June 1990. (Project 766985 - Continuation)

$50,000.00 - Department of Education, Washington, D.C., The Ohio State-Purdue-Emory-Vanderbilt Russian Language Program at the Pushkin Russian Language Institute in Moscow, U.S.S.R., Department of Slavic and East European Languages and Literatures (D. F. Robinson), 1 August 1990 through 31 July 1991. (Project 768153 - New)

$50,000.00 - National Science Foundation, Washington, D.C., Nonlinear Studies in Magnet Garnet Films, Department of Physics (P. E. Wigen and C. Jayaprakash), 1 March 1990 through 28 February 1991. (Project 768144 - New)

$49,981.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, High Transition Temperatures Superconducting Microwave Transmission Lines and Device Structures, Department of Electrical Engineering (G. J. Valco), 29 January 1990 through 29 April 1991. (Project 766577 - Continuation)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$41,957.00 - National Science Foundation, Washington, D.C., Sedimentology of the Permian-Triassic Fluvial Sequence in the Beardmore Glacier Region, Antarctica, Byrd Polar Research Center and Department of Geology and Mineralogy (J. W. Collinson), 1 March 1990 through 28 February 1991. (Project 768142 - New)

$41,372.00 - National Science Foundation, Washington, D.C., Late Holocene Climatic History Recorded in Laminated Sediments from the George V Coast, Antarctica, Byrd Polar Research Center (D. H. Elliot and A. Leventer), 1 April 1990 through 31 March 1991. (Project 768155 - New)


$30,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Experimental Study of Organized Structures in a Supersonic Shear Layer, Department of Mechanical Engineering (M. Samimy), 22 February 1990 through 21 February 1991. (Project 765794 - Continuation)

$29,507.00 - National Science Foundation, Washington, D.C., Application of Measure Theory to Probability and Banach Spaces, Department of Mathematics (M. Talagrand), 1 December 1990 through 30 November 1991. (Project 766743 - Continuation)

$28,212.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Impact Design Criteria for Helmets, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1990 through 31 December 1990. (Project 767287 - Continuation)

$25,000.00 - Department of Agriculture, Science and Education, Peoria, Illinois, The Erodibility of Water Erosion Prediction Project (WEPP) Cropland Soils, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (W. J. Elliot), 27 February 1990 through 30 September 1991. (Project 768134 - New)


$24,500.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Structural inspection and Evaluation of Existing Lock Gates on Waterways, Department of Welding Engineering (C. L. Tsai), 1 March 1990 through 31 October 1990. (Project 768138 - New)

$19,300.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 1 April 1990 through 31 March 1991. (Project 766608 - Continuation)
Federal Research Contracts/Grants (contd)

$17,825.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Head Injury Trauma Research Program, Department of Mechanical Engineering (R. L. Stalnaker), 15 September 1989 through 31 March 1990. (Project 767854 - Continuation)

$15,576.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Structure and Dynamics of Bluff Body Wakes, Department of Mechanical Engineering (Y. G. Guezennec), 15 February 1990 through 14 May 1990. (Project 768183 - New)

$14,650.00 - National Science Foundation, Washington, D.C., L-Functions with Applications to the Oscillator Representation, Department of Mathematics (S. Rallis), 1 December 1989 through 30 November 1990. (Project 766771 - Continuation)

$13,386.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1990 through 31 December 1990. (Project 761094 - Continuation)


$10,700.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Comparison of Materials for Hybrid III Ribs, Department of Mechanical Engineering (J. A. Collins), 1 March 1990 through 30 September 1990. (Project 766989 - Continuation)

$7,500.00 - Department of Health and Human Services, National Center for Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Biological Sciences, Office of Minority Affairs (L. G. Morrow), 1 March 1990 through 28 February 1991. (Project 768148 - Continuation)

$7,500.00 - Department of Health and Human Services, National Center for Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Dentistry, Office of Minority Affairs (L. G. Morrow), 1 March 1990 through 28 February 1991. (Project 768149 - Continuation)

$7,500.00 - Department of Health and Human Services, National Center for Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1990 through 28 February 1991. (Project 768145 - Continuation)

$7,500.00 - Department of Health and Human Services, National Center for Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Veterinary Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1990 through 28 February 1991. (Project 768147 - Continuation)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$4,000.00 - National Science Foundation, Washington, D.C., Physical Studies of Xanthine Oxidase and Arsenite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 November 1989 through 31 October 1990. (Project 767140 - Continuation)

$3,378.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Program (P. E. Kolattukudy), 1 January 1990 through 31 December 1990. (Project 766224 - Continuation)

$2,901.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Bone-Cement Interface Biomechanics, Department of Surgery (A. S. Litsky), 1 December 1989 through 30 November 1990. (Project 767202 - Continuation)

TOTAL - FEDERAL AWARDS $9,300,133.50

State of Ohio Research Contracts/Grants

$117,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Expanded Support for the Ohio Technology Transfer Organization, Engineering Experiment Station and Academic Affairs Administration (R. E. Bailey), 1 July 1989 through 30 June 1990. (Project 767751 - Continuation)

$33,435.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Comparison of Rural and Urban Homeless Children's Mental Health, Department of Family and Community Nursing (J. D. Wagner), 30 January 1990 through 31 January 1991. (Project 768109 - New)

$12,500.00 - State of Ohio, Department of Transportation, Columbus, Ohio, Geodetic Advisor for the State of Ohio, Center for Mapping and Department of Geodetic Science and Surveying (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 766352 - Continuation)

$9,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Dental Resource and Referral System for Central Ohio, Nisonger Center (E. S. Sterling), 1 February 1990 through 30 September 1990. (Project 768157 - New)

$6,000.00 - State of Ohio, Department of Administrative Services, Columbus, Ohio, Literature Search for Ohio Geographically Referenced Information Advisory Committee, Department of Geodetic Science and Surveying and Center for Mapping (J. D. Bossler), 1 October 1989 through 30 June 1990. (Project 768167 - New)

$3,900.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1989 through 30 June 1990. (Project 767658 - Continuation)

$3,193.00 - State of Ohio, Department of Health, Columbus, Ohio, Central Ohio Prescribed Pediatric Extended Care Program, Nisonger Center (S. E. Thompson and E. King), 1 October 1989 through 30 September 1990. (Project 767832 - Continuation)

$1,500.00 - State of Ohio, Commission on Minority Health, Columbus, Ohio, Heart Health Videos for Southeast Asians, School of Health, Physical Education, and Recreation (M. S. C. Chen), 1 April 1990 through 30 April 1990. (Project 768168 - New)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$900.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Parent Education: A Prevention, Cooperative Extension Field Operations (B. W. Chirayath), 1 July 1989 through 30 June 1990. (Project 767371 - Continuation)

TOTAL - STATE OF OHIO AWARDS $187,428.00

Industrial Research Contracts/Grants

$280,124.00 - Pfizer, Inc., Groton, Connecticut, Phase I Multiple Dose, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Pharmacokinetics of Oral CP-72,133 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 October 1989 through 30 June 1990. (Project 768171 - New)

$129,823.00 - Pfizer, Inc., Groton, Connecticut, Phase I Multiple Dose, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Pharmacokinetics of Topically Applied CP-70,490-09 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 September 1989 through 30 June 1990. (Project 768172 - New)

$97,810.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Relative Bioavailability and Dose Proportionality of CGS-13429A Following Single Doses of 4.0 mg. Oral Buffered Solution, Two 2.0 mg. Tablets and 4.0 mg. Duodenal Infusion in the Fasted State, and Two 2.0 mg. Tablets Non-Fasted in Healthy Volunteers, Department of Pharmacology (N. Gerber), 1 September 1989 through 30 June 1990. (Project 768174 - New)


$45,688.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Single Oral Dose Safety Study of CGS-13429A in Volunteers, Department of Pharmacology (N. Gerber), 1 January 1990 through 30 June 1990. (Project 765696 - Continuation)

$36,958.00 - Pfizer, Inc., Groton, Connecticut, Open Label Cross-over Study of the Uricosuric Activity of Single Doses of Tenidap Sodium (CP-66,248-2) Compared to Probenecid, Department of Pharmacology (N. Gerber), 1 October 1989 through 30 June 1990. (Project 768173 - New)

$34,576.00 - Pfizer, Inc., Groton, Connecticut, Study No. 120-003-501, Department of Pharmacology (N. Gerber), 10 April 1989 through 30 June 1990. (Project 767511 - Continuation)


$24,949.00 - Mission Research Corporation, Santa Barbara, California, Advance Radome Research, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 January 1990 through 1 July 1990. (Project 768160 - New)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

$20,000.00 - Universal Energy Systems, Inc., Dayton, Ohio, Experimental Determination of Damage Initiation Resulting from Low Velocity Impact of Composites, Department of Civil Engineering (W. E. Wolfe), 1 January 1990 through 31 July 1990. (Project 768184 - New)

$19,818.00 - CeramPhysics, Inc., Westerville, Ohio, Ceramic Honeycombs for Joule-Thompson Cryocooler, Department of Materials Science and Engineering (E. R. Kreidler), 1 July 1990 through 31 March 1991. (Project 767533 - Continuation)


$18,000.00 - Showa Denko K-K, New York, New York, Maternal-Ovarian Transfer of Ascorbate and Conditioning Effect in Embryos and Alevins of Salmonid Fishes, School of Natural Resources and Department of Natural Resources - OARDC (K. Dabrowski), 1 May 1990 through 30 April 1991. (Project 768159 - New)

$7,150.00 - Jarrow Formulas, Inc., Los Angeles, California, Early Cancer Detection Method, Department of Radiology (S. M. D'Ambrosio) and Department of Physiological Chemistry (R. W. Trewyn), 1 February 1990 through 31 May 1990. (Project 767284 - Continuation)

$6,576.00 - Applied R & D, Olmsted Falls, Ohio, Vertical Multi-Junction Photovoltaic Cell, Department of Electrical Engineering (G. J. Valeo), 1 March 1990 through 30 June 1990. (Project 767802 - Continuation)

$500.00 - Eli Lilly and Company, Indianapolis, Indiana, Post-Marketing Survey on the Use of Dobutamine, Department of Anesthesiology (T. M. Fuhrman, Jr.), 1 December 1989 through 30 June 1990. (Project 767955 - New)

TOTAL - INDUSTRIAL AWARDS $ 836,548.00

Other Non-Federal Research Contracts/Grants


$100,000.00 - National 4-H Council, Chevy Chase, Maryland, Cooperative Extension System -- Recycling/Composting Development Project, Cooperative Extension State Operations and Department of Natural Resources - OARDC (J. D. Rohrer) and Department of Plant Pathology - OARDC (H. A. J. Hoitink), 1 January 1990 through 31 December 1992. (Project 768107 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$70,250.00 - University of Texas, Galveston, Texas, Studies of Mechanism and Therapy of Human Immunodeficiency Virus (HIV) Cytotoxicity, Department of Veterinary Pathobiology (J. L. Rojko), 1 September 1989 through 31 August 1990. (Project 766650 - Continuation)

$69,413.00 - University of Southern California, Los Angeles, California, Pathogenetic Mechanisms in Feline Leukemia, Department of Veterinary Pathobiology (R. G. Olsen and P. C. Stromberg), 1 January 1990 through 31 December 1990. (Project 768178 - New)

$64,438.00 - Michigan State University, East Lansing, Michigan, Policy Impediments and Opportunities for Expanded Aquaculture in the North Central Region, Department of Natural Resources - OARDC and School of Natural Resources (D. W. Floyd, C. F. Cole, and R. L. Vertrees), 1 May 1990 through 31 December 1991. (Project 767546 - New)

$56,000.00 - Columbus Health Department, Columbus, Ohio, Surveillance Assistant, Department of Internal Medicine (M. F. Para), 1 January 1990 through 30 June 1990. (Project 768176 - New)

$40,000.00 - Rockefeller Foundation, New York, New York, Bellagio Conference on Use of Drugs and Vaccines in Developing Countries, Department of Internal Medicine (C. M. Kunin), 1 January 1990 through 31 December 1990. (Project 767170 - New)


$33,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Characterization of HBGF-1 in Human Fetal Heart, Department of Internal Medicine (I. M. Chiu), 1 April 1990 through 31 March 1991. (Project 767364 - Continuation)

$25,000.00 - American Lung Association, New York, New York, Contrasting Models of Neutrophil Recruitment to the Lung: Pneumonia Versus Sepsis, Department of Internal Medicine (G. C. Kindt), 1 July 1990 through 30 June 1991. (Project 766912 - Continuation)

$22,031.00 - Children's Hospital Research Foundation, Columbus, Ohio, Intestinal Transplantation in Inbred Rats, Department of Surgery (C. G. Orosz), 1 August 1989 through 31 July 1990. (Project 767161 - Continuation)

$16,090.00 - Columbus Health Department, Columbus, Ohio, HIV-Related Needs: A Regional Analysis, Department of Family Medicine (L. L. Gabel), 15 November 1989 through 14 November 1990. (Project 768169 - New)

$10,938.88 - American Heart Association, New Jersey Affiliate, North Brunswick, New Jersey, Myocardial Carnosine and Histamine in Trauma and Infection, Department of Surgery (L. J. Flanciaum), 1 January 1990 through 31 December 1990. (Project 768070 - New)

$10,508.00 - Hemophilia Foundation of Michigan, Ann Arbor, Michigan, The Ohio State University Hemophilia Treatment Center, Department of Internal Medicine (S. P. Balcerzak), 1 October 1989 through 30 September 1990. (Project 768137 - New)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$10,500.00 - United States Golf Association, Far Hills, New Jersey, Monoclonal Antibodies for Rapid Diagnosis of Summer Patch and Necrotic Ring Spot Diseases of Turfgrass, Department of Plant Pathology - OARDC and Department of Plant Pathology (W. W. Shane) and Cooperative Extension State Operations and Department of Plant Pathology (S. T. Nameth), 1 February 1990 through 31 January 1991. (Project 765882 - Continuation)

$10,250.00 - Bowling Green State University, Bowling Green, Ohio, AIDS Education in Ohio's Colleges and Universities, School of Allied Medical Professions (S. L. Wilson), 1 July 1989 through 30 June 1990. (Project 768156 - New)

$8,000.00 - The Ruffed Grouse Society, Coraopolis, Pennsylvania, Ohio Coverts Project, Cooperative Extension Field Operations (E. L. Smith), 1 January 1990 through 31 December 1990. (Project 767321 - Continuation)

$8,000.00 - University of Arkansas, Little Rock, Arkansas, Consortium for the Development of Professional Materials for Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 768154 - Continuation)

$5,000.00 - The Leo Yassenoff Foundation, Columbus, Ohio, Adapted Toy Library, Nisonger Center (S. R. Schroeder), 2 February 1990 through 31 December 1990. (Project 768161 - New)


$1,642.00 - The University of Vermont, Burlington, Vermont, Contractile Properties of Mutant Drosophila melanogaster Muscle, Department of Molecular Genetics (S. Falkenthal), 1 January 1990 through 31 December 1990. (Project 768092 - Continuation)

$1,365.00 - Diabetes Research and Education Foundation, Inc., Bridgewater, New Jersey, Diabetic Patients' Perceptions of the Teaching Role of the Home Health Care Nurse, Department of Life Span Process (L. C. Dzurec), 1 December 1989 through 30 November 1990. (Project 768131 - New)

$200.00 - American Agricultural Economics Association, Ames, Iowa, Priority Data on Agricultural and Rural Areas: A Survey of Agricultural and Rural Social Scientists, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak) and Department of Agricultural Economics and Rural Sociology (W. S. Chern and L. Tweeten), 1 April 1988 through 31 December 1989. (Project 766867 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS $ 844,215.88
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

$16,000.00 - from the Edison Program, Columbus, Ohio, for "Electrohydraulic Forming of Heating Ventilation and Air Conditioning Components," under the direction of the department of Materials Science and Engineering for the period April 1, 1990 through May 31, 1990. (312529)

$15,720.00 - from Ohio Coal Research Laboratories Association, Athens, Ohio, for "ORCLA - Planning Grant," under the direction of the department of Chemical Engineering for the period March 1, 1990 through June 30, 1990. (529842)

$3,263.00 - from Ohio Department of Transportation, Columbus, Ohio, for "Orientation Course for ODOT Summer Employment, 1990," under the direction of the department of Civil Engineering for the period March 26, 1990 through June 30, 1990. (529844)

$3,000.00 - from Ohio Coal Research Laboratories Association, Athens, Ohio, for "ORCLA - Combustion," under the direction of the department of Mechanical Engineering for the period March 1, 1990 through September 30, 1990. (529841)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT $ 37,983.00

Industry and Other Sponsored Research and Development

$105,000.00 - from Truesports Company, Hilliard, Ohio, for "Wind Tunnel Testing," under the direction of the department of Aeronautical and Astronautical Engineering for the period March 15, 1990 through February 28, 1991. (312530)

$80,000.00 - from Southwest Research Institute, San Antonio, Texas, for "Development of Performance Predictions for Repaired Polyethylene Pipes," under the direction of the department of Engineering Mechanics for the period October 25, 1989 through December 31, 1990. (529828)

$65,000.00 - (second year) funding from IBM, Hopewell Junction, New York, for "Thermoviscoelastic Characterization of a Polyimide Material for Electronics Applications," under the direction of the department of Engineering Mechanics for the period November 1, 1988 through October 31, 1990. (529787, Ext. 1)

$57,054.00 - additional funding from the Institute of Computational Fluid Dynamics, Tokyo, Japan, for "Development of Computer Software Fluid Flow Analysis," under the direction of the department of Mechanical Engineering for the period April 1, 1989 through March 31, 1991. (529795, Ext. 1)

$51,200.00 - from General Electric, Cincinnati, Ohio, for "Air New Zealand Engine Simulator Testing," under the direction of the department of Aeronautical and Astronautical Engineering for the period March 15, 1990 through June 30, 1990. (312531)

$50,000.00 - from Isotec, Inc., Miamisburg, Ohio, for "Laser Control of Isotopic Separation Chemical Reactions," under the direction of the department of Mechanical Engineering for the period January 1, 1990 through December 31, 1990. (529840)
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

$29,000.00 - from General Electric, Cincinnati, Ohio, for "Hydrocarbon Fuel Testing," under the direction of the department of Aeronautical and Astronautical Engineering for the period March 15, 1990 through June 30, 1990. (312534)

$20,720.00 - from United Nations Development Programme, New York, New York, for "UN Visiting Research Fellows," under the direction of the department of City and Regional Planning for the period January 1, 1990 through March 16, 1990. (312528)

$20,504.00 - from 18 sponsors of 22 development projects under the direction of one research area of the College.

$8,700.00 - from Centro Ricerche Fiat, Torino, Italy, for "Gear Dynamics and Noise Analysis," under the direction of the department of Mechanical Engineering for the period March 1, 1990 through June 30, 1990. (312532)

$8,000.00 - from Caterpillar, Inc., Peoria, Illinois, for "Finite Element Analysis of Bevel Gears," under the direction of the department of Mechanical Engineering for the period March 1, 1990 through June 30, 1990. (312533)

$2,000.00 - from various industry for affiliate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station.

INDUSTRIAL AND OTHER SPONSORED RESEARCH $497,178.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Charles H. Ackers Cancer and Cardiovascular Research Fund

The Charles H. Ackers Cancer and Cardiovascular Research Fund was established May 3, 1990, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Charles H. Ackers Trust as established by the late Mr. Charles H. Ackers of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the College of Medicine to support cancer research and the research work of a distinguished cardiologist as approved by the Dean of the College of Medicine in consultation with Dr. Robert M. Zollinger, as long as he is living.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
Establishment of Named Funds (contd)

The William H. Saunders Otolaryngology Endowment Fund

The William H. Saunders Otolaryngology Endowment Fund was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from faculty, residents, colleagues, and various donors in honor of William H. Saunders, M.D., past chairperson of the Department of Otolaryngology.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for research in the Department of Otolaryngology within the College of Medicine, as approved by the chairperson of the Department of Otolaryngology.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The Michael J. Tomczak Athletic Endowment Fund

The Michael J. Tomczak Athletic Endowment Fund was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Michael J. Tomczak (B.A., Social and Behavioral Sciences '87, Varsity "O" Football 1981-1984) of Chicago, Illinois.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to help fund the grant-in-aid costs for a student-athlete who is a member of the varsity football squad, playing at the quarterback position. Selection of the recipient(s) is to be made by the Director of Athletics in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
May 3, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Bernard J. La Londe Transportation and Logistics Scholarship

The Bernard J. La Londe Transportation and Logistics Scholarship was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from friends and companies in honor of Dr. La Londe, and in support of Transportation and Logistics.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to undergraduate transportation and logistics majors in the College of Business. Selection of the recipient(s) shall be made by a committee appointed by the Past Presidents Committee of The Columbus Roundtable of the Council of Logistics Management, in cooperation with the Transportation and Logistics faculty and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

The John W. and Dorothy Uhl Sawyer Award

The John W. and Dorothy Uhl Sawyer Award was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from John W. Sawyer (B.M.E. '38), and Dorothy Uhl Sawyer (B.S.Ed. '41, Nursing Certificate '41) of Hendersonville, North Carolina.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund the "Sawyer Award," which is established as a memorial to Professor F. W. Marquis who gave over 40 years of service to the Department of Mechanical Engineering as chairperson and professor. The award shall be given annually to students in the Department of Mechanical Engineering who have financial need and academic promise. The award shall not be available to students who, at the time of selection, are in the top 20% of their class. The Dean of the College of Engineering shall be responsible for selecting award recipients, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Cardinal Distribution, Inc.,
Cancer Research Endowment Fund

The Cardinal Distribution, Inc., Cancer Research Endowment Fund was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Cardinal Distribution, Inc., and Robert D. Walter, Chairman, Cardinal Distribution, Inc.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support cancer research in The Arthur G. James Cancer Hospital and Research Institute as approved by the director of The Arthur G. James Cancer Hospital and Research Institute and the Vice President for Health Services.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the director of The Arthur G. James Cancer Hospital and Research Institute and the Vice President for Health Services in order to carry out the desire of the donors.

The Willis T. Kubiac Memorial Fund

The Willis T. Kubiac Memorial Fund was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from family, friends, and various donors in memory of Willis T. Kubiac (M.D. '39).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for the library in the Division of Orthopedic Surgery within the College of Medicine, as approved by the director of the Division of Orthopedic Surgery in consultation with the Orthopedic Library Committee.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Nu Sigma Nu Alumni Scholarship Fund

The Nu Sigma Nu Alumni Scholarship Fund was established May 3, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Nu Sigma Nu alumni.
Establishment of Named Funds (contd)

**Nu Sigma Nu Alumni Scholarship Fund (contd)**

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide no less than three annual awards for academic excellence to students in their second academic year in the College of Medicine. Recipients shall be chosen by the Associate Dean of Student Affairs of the College of Medicine in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

**Change in Description of Named Fund**

**Cynthia Cook Dissertation Scholarship in Early and Middle Childhood Education**

The Cynthia Cook Dissertation Scholarship in Early and Middle Childhood Education was established November 7, 1980, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from friends of Cynthia Cook. The description was revised May 3, 1990.

The annual income shall be used to provide support for dissertation research in the general area of language arts in the College of Education. Selection of the recipient shall be made by the Cynthia Cook Scholarship Committee, in consultation with the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for early and middle childhood education.

--0--
May 3, 1990 meeting, Board of Trustees

Employment of Architects/engineers and Request for Construction Bids

Background

University Hospitals Emergency Department Master Plan - Phase I, Holding Area and Hyperbaric Oxygen Therapy

This project is for redesign of the University Hospitals Emergency Department to create new patient handling systems which will separate the emergency or trauma patients from the non-emergency or urgent care patient. Phase I is a part of the non-emergency area and will include renovation of 2,408 gross square feet for CAT scan, Hyperbaric Oxygen Treatment area, new patient holding area, and support spaces. To complete the entire Emergency Department Master Plan will require several more phases over a time span of several years.

Funds for this project are available from University Hospitals funds. Construction costs for Phase I of the project are estimated at $215,000.00 and the total estimated project cost for Phase I is $277,860.00

(See Appendix LXVIII for map, page 1063.)

EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 90-120

UNIVERSITY HOSPITALS EMERGENCY DEPARTMENT MASTER PLAN - PHASE I, HOLDING AREA AND HYPERBARIC OXYGEN THERAPY

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the University Hospitals Emergency Department Master Plan project.

WHEREAS the University Hospitals Emergency Department Master Plan calls for the creation of new patient handling systems to separate emergency and trauma patients from non-emergency and urgent care patients; and

WHEREAS Phase I of this project will renovate 2,408 square feet of space in the Emergency Department to further this separation of patients; and

WHEREAS the total estimated cost of the project is $277,860.00, with the estimated construction cost being $215,000.00, with funding provided from University Hospitals:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Acting Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services be negotiated between the firms selected and the University; and
May 3, 1990 meeting, Board of Trustees

EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS (contd)

UNIVERSITY HOSPITALS EMERGENCY DEPARTMENT MASTER PLAN - PHASE I, HOLDING AREA AND HYPERBARIC OXYGEN THERAPY (contd)

BE IT FURTHER RESOLVED, That the President and/or Acting Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

---0---

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix LXVIII for a complete tabulation of bids on all projects and locator maps, page 1065. Amounts shown with an * include accepted alternates.)

Masonry Improvements (Bricker Hall);
OARDC Entomology Greenhouse;
Masonry Improvements (Koffolt Laboratory); and
Seagrant School Project - South Bass & Gibraltar Islands

Masonry Improvements (Bricker Hall)

This project will replace the damaged and deteriorated exterior masonry on the Bricker Hall parapet. The total project cost is $65,340.00; funding is provided from House Bill 810. The estimated completion date is July 1990. The contract awarded is as follows:

General Contract: H. K. Phillips, Columbus, Ohio

Amount: $57,400.00 *

Estimate: $76,000.00 *

Total All Contracts: $57,400.00

Contingency Allowance: $5,740.00 (10% of construction cost)

Total Project Cost: $65,340.00

OARDC Entomology Greenhouse

This project will remove old glazing and wood members and replace them with aluminum extrusions, insulation, and double skin acrylic panels. Modification of the cooling and ventilating systems also will be accomplished. The total project cost is $174,035.00; funding is provided from Senate Bill 386. The estimated completion date is November 1990. The contracts awarded are as follows:
May 3, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

OARDC Entomology Greenhouse (contd)

General Contract: Freeman Construction, Wooster, Ohio
Amount: $139,800.00 *
Estimate: $148,930.00 *

Mechanical Contract: Guenther Plumbing and Heating, Ashland, Ohio
Amount: $12,891.00 *
Estimate: $13,370.00 *

Electric Contract: Abbott Electric, Canton, Ohio
Amount: $10,200.00
Estimate: $12,200.00

Total All Contracts: $162,891.00 *
Contingency Allowance: $8,144.00 (5% of construction cost)
Total Project Cost: $174,035.00

Masonry Improvements (Koffolt Laboratory)

This project will repair the interior structural concrete in Koffolt Laboratory. The total project cost is $114,179.00; funding is provided from House Bill 810. The estimated completion date is October 1990. The contract awarded is as follows:

General Contract: Miles Construction, Columbus, Ohio
Amount: $94,610.00 *
Estimate: $147,000.00 *

Total All Contracts: $94,610.00
Contingency Allowance: $7,569.00 (8% of construction cost)
Total Project Cost: $114,179.00
May 3, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Seagrant School Project - South Bass & Gibraltar Islands

This phase of the project will replace the deteriorated roofs on Gibraltar Cottage and Stone Laboratory. The total cost of this phase of the project is $84,800.00; funding is provided from House Bill 810. The estimated completion date is August 1990. The contract awarded is as follows:

General Contract: Nordmann Roofing, Toledo, Ohio

<table>
<thead>
<tr>
<th>Amount</th>
<th>$76,666.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate</td>
<td>$73,000.00</td>
</tr>
<tr>
<td>Total All Contracts: $76,666.00</td>
<td></td>
</tr>
<tr>
<td>Contingency Allowance: $6,134.00 (8% of construction cost)</td>
<td></td>
</tr>
<tr>
<td>Total Project Cost: $84,800.00</td>
<td></td>
</tr>
</tbody>
</table>

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-121

MASONRY IMPROVEMENTS (BRICKER HALL);
OARDC ENTOMOLOGY GREENHOUSE;
MASONRY IMPROVEMENTS (KOFFOLT LABORATORY); AND
SEAGRANT SCHOOL PROJECT - SOUTH BASS & GIBRALTAR ISLANDS

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Masonry Improvements (Bricker Hall), OARDC Entomology Greenhouse, Masonry Improvements (Koffolt Laboratory), and Seagrant School Project - South Bass & Gibraltar Islands projects.

WHEREAS a resolution adopted by the Board of Trustees on May 5, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Masonry Improvements (Bricker Hall), Masonry Improvements (Koffolt Laboratory), and Seagrant School Project - South Bass & Gibraltar Islands; and

WHEREAS a resolution adopted by the Trustees of the Ohio Agricultural Research and Development Center prior to its merger with The Ohio State University authorized OARDC to request bids in accordance with established State of Ohio procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following project: OARDC Entomology Greenhouse:

NOW THEREFORE
May 3, 1990 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND 
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

MASONRY IMPROVEMENTS (BRICKER HALL); 
OARDC ENTOMOLOGY GREENHOUSE; 
MASONRY IMPROVEMENTS (KOFFOLT LABORATORY); AND 
SEAGRANT SCHOOL PROJECT - SOUTH BASS & GIBRALTAR ISLANDS (contd)

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and by the Trustees of OARDC and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the Masonry Improvements (Bricker Hall), OARDC Entomology Greenhouse, Masonry Improvements (Koffolt Laboratory), and Seagrant School Project - South Bass & Gibraltar Islands projects are hereby accepted.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Sale of Real Property
195 and 201 East 16th Avenue, Columbus, Ohio

Background

Description

These properties are two adjacent lots located on the south side of East 16th Avenue approximately two blocks east of High Street and the University's central campus area. Each property consists of a three-story wood-frame and masonry residential structure with basement, constructed around 1920. Each is situated on a lot of approximately 0.235 acres, and each has been converted to use as a rooming house for housing up to 25 students. The property at 195 East 16th is known as the Davisson-Hanley Scholarship House and that at 201 as the Mary Pomerene Scholarship House. Both houses are in very poor condition and presently are vacant.

Acquisition and Use

While in private ownership, the two properties were operated under the aegis of the Alumnae Scholarship House (ASH) Board to provide low cost scholarship housing for academically qualified women students. Later, the properties were given to the University but still operated by the ASH Board. Subsequently, in the mid 1970's operation of the houses was transferred to the Office of Residence and Dining Halls. Throughout all this time, the ASH Board used income from designated University Endowment accounts to help subsidize the operating and maintenance costs of these houses. However, as the buildings aged and deteriorated and new code requirements became effective, these funds plus funds from Residence and Dining Halls were increasingly insufficient to cover needed maintenance and required renovations. In June 1987, the houses were closed, and the University began to investigate options for renovation or replacement of these facilities or the use of available funds for other scholarship housing programs.

Proposed Sale and Use of Proceeds

A study conducted by Bohm-NBBJ in 1987 noted many conditions not meeting current fire and safety code requirements. The study estimated that total renovation cost for the two properties would exceed $449,000.00 and that the total replacement cost for the facilities would be about $916,000.00. In addition, to meet building code requirements, the maximum occupancy of each
May 3, 1990 meeting, Board of Trustees

Sale of Real Property

195 and 201 East 16th Avenue, Columbus, Ohio (contd)

Background (contd)

Proposed Sale and Use of Proceeds (contd)

house would have to be reduced from 25 to approximately 18 students. MAI appraisals
conducted by Wilhelm and Associates in January 1988, valued the two properties at $230,000.00.

Based on the appraised value, the cost of renovation or replacement, and the reduced revenue
potential from lower occupancy, continued use of these facilities as scholarship houses is not
economical. Because of their location east of High Street, the properties are not suited for other
University programs. Therefore, the University has determined that the best alternative is to sell
the properties and use the net proceeds to make capital improvements to upgrade other
scholarship housing facilities.

Title to these two properties is held by the State of Ohio for the use of The Ohio State University.
Consequently, sale of the properties is subject to approval by the Ohio General Assembly through
an act authorizing the Ohio Department of Administrative Services to conduct the sale on the
University's behalf. The University is proposing that the sale be for a minimum value based on an
appraisal approved by DAS and be done through the solicitation of sealed bids or a negotiated
sale if no bids are acceptable. Net proceeds from the sale would be deposited in a Residence
and Dining Halls account and used to renovate the Ann Tweedale Alumnae Scholarship House,
located at 220 West 11th Avenue.

(See Appendix LXX for map, page 1075.)

SALE OF REAL PROPERTY

Resolution No. 90-122

195 AND 201 EAST 16th AVENUE
COLUMBUS, OHIO

Synopsis: The Fiscal Affairs Committee recommended the Sale of Property at 195 and 201 East
16th Avenue, Columbus, Ohio.

WHEREAS The Ohio State University owns two parcels of improved real property located at 195
and 201 East 16th Avenue in Columbus, Ohio, which properties are titled in the State of Ohio for
the use of The Ohio State University; and

WHEREAS these houses are in very poor condition and substantial renovation, including
renovations required to meet fire and safety code requirements, would be required to permit use
of the houses for student housing or other University purposes; and

WHEREAS because of their poor condition, the high cost of renovation, and their location, the
appropriate University offices have determined that the houses are neither fit nor well suited for
University programs and it would be in the best interest of the University to sell these properties
and use the net proceeds to improve the Ann Tweedale Alumnae Scholarship House:

NOW THEREFORE
May 3, 1990 meeting, Board of Trustees

SALE OF REAL PROPERTY (contd)

195 AND 201 EAST 16th AVENUE
COLUMBUS, OHIO (contd)

BE IT RESOLVED, That the President and/or Acting Vice President for Business and Administration be authorized to sell all of the University's right, title, and interest in and to these properties, subject to authorization by the Ohio General Assembly and in accordance with the procedures and requirements of the Ohio Department of Administrative Services, upon such terms and conditions as are deemed to be in the best interest of the University, and that net proceeds from the sale of these properties be deposited in the appropriate account within the Office of Residence and Dining Halls for the purpose of making renovations to the Ann Tweedale Alumnae Scholarship House.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Sale of Real Property
Marysville Veterinary Clinic
Marysville, Ohio

Background

The Marysville Veterinary Clinic is a branch of the University's Veterinary Hospital operated by the College of Veterinary Medicine. The Clinic is located on a 15-acre site in Union County, at 1050 Milford Center Road, on the outskirts of Marysville. The facility includes a brick clinic building of approximately 2,530 square feet and a ranch-style three-bedroom brick residence of approximately 2,450 square feet rented to a faculty member. The buildings, constructed in the early 1960's are in fair condition. Also located on the site is a mobile home used for overnight accommodations for students.

Acquisition, Use, and Value

The University purchased the Clinic and the veterinary practice being operated from it from John and Helen Andreas in December 1969, for $130,000.00. Funds for the purchase came from earnings of the Veterinary Hospital, and title to the property was taken in the name of the State of Ohio for the use of The Ohio State University. The Clinic was acquired to provide clinical training and experience for veterinary students in farm animal practice in a rural setting. An MAI appraisal by Nash Wilson Associates, Inc., in April 1990, valued the property at $286,000.00.

Proposed Sale and Use of the Proceeds

The Clinic currently is in need of repair and renovation to maintain adequate office and instruction facilities. In addition, the facility is in a location which is becoming worth more for development in the Marysville area than it is to the University for a clinic operation. The long-range plans for the College and for clinical instruction in rural practice will dictate relocating the facility. At the current time, the College believes this property no longer meets the business and academic requirements for clinical instruction and, given the anticipated renovation expenses, has determined it would be wise now to sell this facility and use the net proceeds for long-term support of the rural large animal practice clinical program.
May 3, 1990 meeting, Board of Trustees

Sale of Real Property
Marysville Veterinary Clinic
Marysville, Ohio (contd)

Background (contd)

Because title to this property is in the name of the State of Ohio, sale of the property is subject to approval by the Ohio General Assembly through an act authorizing the Ohio Department of Administrative Services to conduct the sale on the University's behalf. The University is proposing that the sale be for a minimum value based on an appraisal approved by DAS and be done through the solicitation of sealed bids or a negotiated sale if no bids are acceptable. Net proceeds would be deposited in an Endowment account for the long-term support of this clinical program.

(See Appendix LXXI for map, page 1077.)

SALE OF REAL PROPERTY
Resolution No. 90-123

MARYSVILLE VETERINARY CLINIC
MARYSVILLE, OHIO

Synopsis: The Fiscal Affairs Committee recommended the sale of the Marysville Veterinary Clinic, Marysville, Ohio.

WHEREAS The Ohio State University owns approximately 15 acres of improved real property at 1050 Milford Center Road in Marysville, Ohio, which property is used for the Marysville Veterinary Clinic; and

WHEREAS the College of Veterinary Medicine has determined that this facility no longer meets the business and academic requirements for clinical instruction and the appropriate University offices have determined that sale of this facility is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Acting Vice President for Business and Administration be authorized to sell all of the University's right, title, and interest in and to this property, subject to authorization by the Ohio General Assembly and in accordance with the procedures and requirements of the Ohio Department of Administrative Services, upon such terms and conditions as are deemed to be in the best interest of the University and that the net proceeds from the sale of this property be deposited in an Endowment account for the long-term support of the College of Veterinary Medicine's clinical programs.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
May 3, 1990 meeting, Board of Trustees

Mrs. Bowser:

This is Laurel's last meeting and it is my distinct pleasure to present this to her. She has been one of the first Student Trustees to join us on the Board. I can only say that she is going to be a hard act to follow, because she has been very attentive. She has asked all the right questions, and she has been very willing to participate and adjust her schedule to help us. We will miss you very much. So, on behalf of the Board, I would like to present this plaque to:

"Laurel A. Davis
Student Member
The Ohio State University Board of Trustees
1989-1990
In appreciation to Laurel Davis
for her dedication, commitment, and praiseworthy service to
The Ohio State University"

Good luck to you.

Mr. Teaford:

I would like to add, too, I think that the future Student Trustees will be glad that Laurel was the first. Because of the way that she has participated on the Board, the Student Trustees have had full access to the Board and have participated as fully as they are permitted -- in fact, in excess of the way that the State law reads. And I think that is a tribute to both of the Student Trustees that this precedence has been established.

Ms. Davis:

I would just like to add that the support from the rest of the Board, and Sophia in particular, has been really wonderful. I hope that Sophia's send-off next year is as warm as mine has been. Thank you.

--0--

President Jennings:

John, as you have often noted, nine years ago about this time you broke a tie. It looks like in a few weeks or in a month or so, that your successor will be able to break a tie. On behalf of The Ohio State University family, we want to recognize your great service to The Ohio State University and your great service as a Board member, Chairman, and as a friend. Please accept this gavel in appreciation from the "family" for your great work. John, we really appreciate it.

Mr. Berry:

I don't know where the nine years have gone, Ed. I really look back on these nine years with a great deal of satisfaction. I have learned a lot more than I have certainly given. You can't understand an institution of this sort unless you are in a position, such as a Trustee. And I think I have a lot more understanding now.
May 3, 1990 meeting, Board of Trustees

Mr. Berry: (contd)

I wish all my colleagues that are going to continue on and all the people connected with this school every success in continued pursuit of excellence. While I am going out to pasture, I still expect to come up and "graze" and "gaze" at all activities in Ohio Stadium. I will look forward to continued association with everyone at the University.

--0--

Thereupon the Board adjourned to meet Friday, June 1, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary  

John W. Berry  
Chairman
APPENDIX LXIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
April 20, 1990

Presented to the Investments Committee and
Adopted by the Board of Trustees May 3, 1990
(See page 984)
THE OHIO STATE UNIVERSITY
ENDOWMENT FUND

ENDOWMENT SUMMARY

April 20, 1990

Office of the Treasurer
The Ohio State University Endowment Fund
Equity Market Information

MARKETS DIARY 4/20/90

STOCKS Dow Jones Industrial Average

DOW JONES 30 INDUSTRIALS

NYSE Volume

DOW JONES AVERAGES

High
Close
Low

---

---

---

---
The Ohio State University Endowment Fund
Selected Yield and Interest Rates

<table>
<thead>
<tr>
<th>YEAR</th>
<th>3-MONTH</th>
<th>6-MONTH</th>
<th>9-MONTH</th>
<th>CORPORATE</th>
<th>GOVERNMENT</th>
<th>MUNICIPAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>8.20</td>
<td>8.27</td>
<td>8.01</td>
<td>9.15</td>
<td>10.10</td>
<td>7.30</td>
</tr>
<tr>
<td>1981</td>
<td>8.35</td>
<td>8.36</td>
<td>8.06</td>
<td>9.18</td>
<td>10.19</td>
<td>7.32</td>
</tr>
<tr>
<td>1982</td>
<td>8.43</td>
<td>8.41</td>
<td>8.09</td>
<td>9.22</td>
<td>10.21</td>
<td>7.34</td>
</tr>
<tr>
<td>1983</td>
<td>8.47</td>
<td>8.46</td>
<td>8.11</td>
<td>9.24</td>
<td>10.21</td>
<td>7.34</td>
</tr>
<tr>
<td>1984</td>
<td>8.34</td>
<td>8.30</td>
<td>8.09</td>
<td>9.18</td>
<td>10.19</td>
<td>7.32</td>
</tr>
<tr>
<td>1985</td>
<td>8.30</td>
<td>8.29</td>
<td>8.08</td>
<td>9.17</td>
<td>10.18</td>
<td>7.31</td>
</tr>
</tbody>
</table>

Note: Current data appear on the Board of Governors' 4.15 release.

SELECTED INTEREST RATES
AVERAGES OF DAILY RATES

<table>
<thead>
<tr>
<th>YEAR</th>
<th>3-MONTH</th>
<th>6-MONTH</th>
<th>9-MONTH</th>
<th>CORPORATE</th>
<th>GOVERNMENT</th>
<th>MUNICIPAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>8.24</td>
<td>7.76</td>
<td>7.75</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
</tr>
<tr>
<td>1981</td>
<td>8.27</td>
<td>7.78</td>
<td>7.75</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
</tr>
<tr>
<td>1982</td>
<td>8.24</td>
<td>7.74</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
</tr>
<tr>
<td>1983</td>
<td>8.23</td>
<td>7.74</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
</tr>
<tr>
<td>1984</td>
<td>8.20</td>
<td>7.73</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
</tr>
<tr>
<td>1985</td>
<td>8.27</td>
<td>7.73</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
<td>7.65</td>
</tr>
</tbody>
</table>

Note: Current data appear on the Board of Governors' 4.15 release.
## THE OHIO STATE UNIVERSITY
### Portfolio Summary

<table>
<thead>
<tr>
<th></th>
<th>4/20/90</th>
<th>8/30/99</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unallocated Cash</strong></td>
<td>$228,820</td>
<td>$57,014,059</td>
</tr>
<tr>
<td><strong>Equities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicago</td>
<td>35,504,724</td>
<td>34,829,320</td>
</tr>
<tr>
<td>R. Meader (1)</td>
<td>12,517,091</td>
<td>0</td>
</tr>
<tr>
<td>Neuberger &amp; Berman</td>
<td>13,298,855</td>
<td>13,562,018</td>
</tr>
<tr>
<td>Nicholas Applegate</td>
<td>13,334,851</td>
<td>11,475,683</td>
</tr>
<tr>
<td>Siebel</td>
<td>33,972,129</td>
<td>32,173,227</td>
</tr>
<tr>
<td>University Managed</td>
<td>29,897,005</td>
<td>29,154,054</td>
</tr>
<tr>
<td>University Students (2)</td>
<td>5,210,237</td>
<td>0</td>
</tr>
<tr>
<td>Wells Fargo EAFE (3)</td>
<td>8,484,934</td>
<td>0</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500 (4)</td>
<td>28,824,570</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Equities</strong></td>
<td>181,044,396</td>
<td>120,884,282</td>
</tr>
<tr>
<td><strong>Fixed Income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boatmen's Trust</td>
<td>21,805,230</td>
<td>23,841,580</td>
</tr>
<tr>
<td>Cambridge</td>
<td>911,049</td>
<td>951,048</td>
</tr>
<tr>
<td>Duff &amp; Phelps</td>
<td>9,875,621</td>
<td>10,243,208</td>
</tr>
<tr>
<td>WR Lazard (5)</td>
<td>9,858,498</td>
<td>0</td>
</tr>
<tr>
<td>STW Fixed Income</td>
<td>22,349,409</td>
<td>24,150,270</td>
</tr>
<tr>
<td>University GNMA</td>
<td>9,839,611</td>
<td>10,144,887</td>
</tr>
<tr>
<td>University Managed</td>
<td>283,063</td>
<td>465,211</td>
</tr>
<tr>
<td><strong>Total Fixed Income</strong></td>
<td>74,700,479</td>
<td>69,765,204</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>43,999,022</td>
<td>39,503,844</td>
</tr>
<tr>
<td><strong>Total Portfolio</strong></td>
<td>$299,942,717</td>
<td>$287,298,389</td>
</tr>
</tbody>
</table>

### Asset Allocation

<table>
<thead>
<tr>
<th>Asset Allocation</th>
<th>4/20/90</th>
<th>3/16/90</th>
<th>8/30/99</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities</strong></td>
<td>$185,139,878</td>
<td>$167,648,709</td>
<td>$108,021,220</td>
<td>36.90</td>
</tr>
<tr>
<td><strong>Fixed Income</strong></td>
<td>$73,062,984</td>
<td>$75,301,148</td>
<td>$66,884,167</td>
<td>23.28</td>
</tr>
<tr>
<td><strong>Real Estate</strong></td>
<td>$43,975,000</td>
<td>$43,875,000</td>
<td>$39,365,000</td>
<td>13.71</td>
</tr>
<tr>
<td><strong>Cash</strong></td>
<td>$17,884,845</td>
<td>$17,444,359</td>
<td>$74,998,002</td>
<td>26.11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$299,942,717</td>
<td>$304,270,216</td>
<td>$287,298,389</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) R. Meader began as an advisor on August 8, 1989 with $15,000,000.
(2) University Students began as advisor on February 20, 1990 with $5,000,000.
(3) Wells Fargo EAFE began as an advisor on October 2, 1989 with $10,000,000.
(4) Wells Fargo S&P 500 began as an advisor on October 6, 1988 with $30,000,000.
(5) WR Lazard began as an advisor on August 8, 1989 with $10,000,000.
## THE OHIO STATE UNIVERSITY

### Endowment Performance Summary

#### Estimated 12 Month Total Return

### Equities

<table>
<thead>
<tr>
<th>Company</th>
<th>Yield%</th>
<th>Change%</th>
<th>Total%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp (1.4)</td>
<td>2.6</td>
<td>7.2</td>
<td>9.8</td>
</tr>
<tr>
<td>R. Meeder (0.7)</td>
<td>1.5</td>
<td>(16.6)</td>
<td>(15.1)</td>
</tr>
<tr>
<td>Neuberger &amp; Berman (0)</td>
<td>2.8</td>
<td>1.1</td>
<td>3.9</td>
</tr>
<tr>
<td>Nicholas Applegate (0.9)</td>
<td>1.2</td>
<td>18.4</td>
<td>19.6</td>
</tr>
<tr>
<td>Siebel (40.7)</td>
<td>4.6</td>
<td>10.2</td>
<td>15.0</td>
</tr>
<tr>
<td>University Managed (0)</td>
<td>2.3</td>
<td>9.7</td>
<td>12.0</td>
</tr>
<tr>
<td>University Students (25.5)</td>
<td>0.6</td>
<td>4.2</td>
<td>4.8</td>
</tr>
<tr>
<td>Wells Fargo EAFE (0)</td>
<td>1.0</td>
<td>(16.2)</td>
<td>(14.2)</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500 (0)</td>
<td>1.9</td>
<td>(3.9)</td>
<td>(2.0)</td>
</tr>
<tr>
<td>S&amp;P 500 (0)</td>
<td>3.0</td>
<td>8.2</td>
<td>11.2</td>
</tr>
</tbody>
</table>

### Fixed Income

<table>
<thead>
<tr>
<th>Company</th>
<th>Yield%</th>
<th>Change%</th>
<th>Total%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust (0.1)</td>
<td>7.8</td>
<td>0.7</td>
<td>8.3</td>
</tr>
<tr>
<td>Cambridge (100.0)</td>
<td>8.1</td>
<td>1.3</td>
<td>9.4</td>
</tr>
<tr>
<td>Duff &amp; Phelps (0.8)</td>
<td>8.2</td>
<td>0.0</td>
<td>8.2</td>
</tr>
<tr>
<td>WR Lazard (0.2)</td>
<td>8.1</td>
<td>(3.4)</td>
<td>2.7</td>
</tr>
<tr>
<td>STW Fixed income (0.8)</td>
<td>8.7</td>
<td>0.1</td>
<td>8.8</td>
</tr>
<tr>
<td>University GNMA (4.6)</td>
<td>9.6</td>
<td>1.9</td>
<td>11.5</td>
</tr>
<tr>
<td>University Managed (0)</td>
<td>14.1</td>
<td>(17.8)</td>
<td>(3.8)</td>
</tr>
<tr>
<td>Shearson Govt/Corp (0)</td>
<td>9.1</td>
<td>0.4</td>
<td>9.5</td>
</tr>
</tbody>
</table>

(1) Percent Cash 4/20/90
(2) Reflects return from Initial allocation August 8, 1988 only.
(3) Reflects return from Initial allocation October 2, 1988 only.
(4) Reflects return from Initial allocation October 6, 1989 only.

### Change in Total Valuation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Value</td>
<td>$287,289,389</td>
<td>$304,270,216</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>$18,525,801</td>
<td>493,519</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(294,472)</td>
<td>(3,472)</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>(5,567,001)</td>
<td>(4,817,548)</td>
</tr>
<tr>
<td>Current Market Value</td>
<td>$299,942,717</td>
<td>$299,942,717</td>
</tr>
</tbody>
</table>

NOTE: Endowment Income from July 1, 1989 through April 30, 1990 totaled approximately $13,199,000.
THE OHIO STATE UNIVERSITY
Maturities and
Real Estate Activity

MATURITIES THAT OCCURRED DURING PERIOD

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
</tr>
</thead>
</table>

No maturities during the period.

REAL ESTATE

Acquisitions & Sales

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost or Appraised Value</th>
</tr>
</thead>
</table>

No activity during the period.
<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,800</td>
<td>Boise Cascade Corp.</td>
<td>Chicago</td>
<td>38.7500</td>
<td>$108,688.00</td>
<td>$4,266.00</td>
</tr>
<tr>
<td>4,400</td>
<td>Citicorp</td>
<td>Chicago</td>
<td>23.1250</td>
<td>102,014.00</td>
<td>7,128.00</td>
</tr>
<tr>
<td>3,000</td>
<td>Community Psychiatric Centers</td>
<td>Chicago</td>
<td>22.0000</td>
<td>66,195.00</td>
<td>1,080.00</td>
</tr>
<tr>
<td>1,200</td>
<td>Computer Sciences Corp.</td>
<td>Chicago</td>
<td>40.5000</td>
<td>48,678.00</td>
<td>0.00</td>
</tr>
<tr>
<td>1,000</td>
<td>CoreStates Financial Corp.</td>
<td>Chicago</td>
<td>38.8750</td>
<td>38,875.00</td>
<td>1,920.00</td>
</tr>
<tr>
<td>900</td>
<td>E-Systems, Inc.</td>
<td>Chicago</td>
<td>27.3500</td>
<td>24,673.50</td>
<td>504.00</td>
</tr>
<tr>
<td>3,100</td>
<td>Fleet/Norstar Financial Group, Inc.</td>
<td>Chicago</td>
<td>21.5000</td>
<td>66,851.50</td>
<td>4,340.00</td>
</tr>
<tr>
<td>6,200</td>
<td>MNC Financial, Inc.</td>
<td>Chicago</td>
<td>18.7500</td>
<td>118,822.00</td>
<td>7,192.00</td>
</tr>
<tr>
<td>800</td>
<td>Safety-Kleen Corp.</td>
<td>Chicago</td>
<td>31.0000</td>
<td>18,658.00</td>
<td>215.00</td>
</tr>
<tr>
<td>2,700</td>
<td>SunTrust Banks, Inc.</td>
<td>Chicago</td>
<td>21.3750</td>
<td>57,868.00</td>
<td>2,288.00</td>
</tr>
<tr>
<td>2,300</td>
<td>Torchmark Corp.</td>
<td>Chicago</td>
<td>44.5000</td>
<td>102,488.00</td>
<td>3,220.00</td>
</tr>
<tr>
<td>2,500</td>
<td>Westinghouse Electric Corp.</td>
<td>Chicago</td>
<td>75.1024</td>
<td>187,918.50</td>
<td>8,000.00</td>
</tr>
<tr>
<td>4,200</td>
<td>Gap, Inc.</td>
<td>Nicholas-Applegate</td>
<td>63.7500</td>
<td>268,602.00</td>
<td>3,192.00</td>
</tr>
<tr>
<td>4,200</td>
<td>Lowe's Companies, Inc.</td>
<td>Nicholas-Applegate</td>
<td>83.0000</td>
<td>277,704.00</td>
<td>4,118.00</td>
</tr>
<tr>
<td>9,200</td>
<td>Prmerica Corp.</td>
<td>Nicholas-Applegate</td>
<td>30.2477</td>
<td>278,630.84</td>
<td>2,944.00</td>
</tr>
<tr>
<td>12,500</td>
<td>Storage Technology Corp.</td>
<td>Nicholas-Applegate</td>
<td>18.5811</td>
<td>244,838.90</td>
<td>0.00</td>
</tr>
<tr>
<td>5,100</td>
<td>Sun Microsystems, Inc.</td>
<td>Nicholas-Applegate</td>
<td>22.7500</td>
<td>118,025.00</td>
<td>0.00</td>
</tr>
<tr>
<td>25,000</td>
<td>Beverly Enterprises, Inc.</td>
<td>Siebel</td>
<td>4.2500</td>
<td>106,250.00</td>
<td>0.00</td>
</tr>
<tr>
<td>1,400</td>
<td>American Express Co.*</td>
<td>University Managed</td>
<td>28.0000</td>
<td>39,200.00</td>
<td>1,288.00</td>
</tr>
<tr>
<td>2,184</td>
<td>Banc One Corp.*</td>
<td>University Managed</td>
<td>28.1490</td>
<td>60,914.50</td>
<td>2,250.56</td>
</tr>
<tr>
<td>62</td>
<td>Limited, Inc.*</td>
<td>University Managed</td>
<td>39.8125</td>
<td>2,070.25</td>
<td>16.64</td>
</tr>
<tr>
<td>50</td>
<td>Worthington Industries, Inc.*</td>
<td>University Managed</td>
<td>20.6250</td>
<td>1,031.25</td>
<td>28.00</td>
</tr>
<tr>
<td>1,000</td>
<td>Great Lakes Chemical Corp.</td>
<td>University Students</td>
<td>53.0000</td>
<td>53,085.00</td>
<td>400.00</td>
</tr>
</tbody>
</table>

*Gift

Total: $2,387,482.24, $52,359.20
## THE OHIO STATE UNIVERSITY
### Equity Sales

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Total Sale</th>
<th>Gain (Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>Aerovox, Inc.</td>
<td>Chicago</td>
<td>3.3750</td>
<td>$843.75</td>
<td>$103.75</td>
</tr>
<tr>
<td>5,000</td>
<td>Anheuser-Busch Companies, Inc.</td>
<td>Chicago</td>
<td>37.8967</td>
<td>186,177.21</td>
<td>33,477.21</td>
</tr>
<tr>
<td>1,700</td>
<td>Crompton &amp; Knowles Corp.</td>
<td>Chicago</td>
<td>31.6250</td>
<td>53,858.70</td>
<td>20,638.41</td>
</tr>
<tr>
<td>900</td>
<td>FlightSafety International, Inc.</td>
<td>Chicago</td>
<td>49.8280</td>
<td>44,807.01</td>
<td>22,386.01</td>
</tr>
<tr>
<td>1,100</td>
<td>Great Lakes Chemical Corp.</td>
<td>Chicago</td>
<td>52.8750</td>
<td>58,094.56</td>
<td>28,840.06</td>
</tr>
<tr>
<td>13,400</td>
<td>United Stationers, Inc.</td>
<td>Chicago</td>
<td>13.5625</td>
<td>180,900.00</td>
<td>(54,120.20)</td>
</tr>
<tr>
<td>400</td>
<td>Wele Markets, Inc.</td>
<td>Chicago</td>
<td>30.0000</td>
<td>11,973.80</td>
<td>497.60</td>
</tr>
<tr>
<td>8,800</td>
<td>Worthington Industries, Inc.</td>
<td>Chicago</td>
<td>21.5000</td>
<td>189,200.00</td>
<td>(1,082.50)</td>
</tr>
<tr>
<td>2,200</td>
<td>Banc One Corp.</td>
<td>Nicholas-Applegate</td>
<td>27.0000</td>
<td>59,286.02</td>
<td>(12,132.02)</td>
</tr>
<tr>
<td>13,000</td>
<td>Chemical Waste Management, Inc.</td>
<td>Nicholas-Applegate</td>
<td>19.2283</td>
<td>246,191.94</td>
<td>(48,385.06)</td>
</tr>
<tr>
<td>1,800</td>
<td>Novell, Inc.</td>
<td>Nicholas-Applegate</td>
<td>36.4338</td>
<td>73,026.05</td>
<td>10,355.86</td>
</tr>
<tr>
<td>12,100</td>
<td>Seagate Technology</td>
<td>Nicholas-Applegate</td>
<td>16.4460</td>
<td>199,984.17</td>
<td>35,867.16</td>
</tr>
<tr>
<td>7,000</td>
<td>United Telecommunications, Inc.</td>
<td>Nicholas-Applegate</td>
<td>40.3303</td>
<td>231,882.98</td>
<td>40,782.58</td>
</tr>
<tr>
<td>900</td>
<td>Aerovox, Inc.</td>
<td>Siebel</td>
<td>3.8250</td>
<td>3,228.50</td>
<td>595.50</td>
</tr>
<tr>
<td>1,400</td>
<td>American Express Co. *</td>
<td>University Managed</td>
<td>28.3750</td>
<td>40,391.86</td>
<td>1,191.85</td>
</tr>
<tr>
<td>110</td>
<td>Ford Motor Co. *</td>
<td>University Managed</td>
<td>48.3750</td>
<td>5,304.57</td>
<td>203.84</td>
</tr>
<tr>
<td>5,000</td>
<td>Worthington Industries, Inc.</td>
<td>University Students</td>
<td>21.8743</td>
<td>109,071.35</td>
<td>5,648.35</td>
</tr>
</tbody>
</table>

*Gift

The total sales amount to $2,052,590.29 with a gain of $42,597.75.
## Purchases and Gifts During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Price</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,750,000</td>
<td>U.S. Treasury Bond 7.250% 05-15-16</td>
<td>Boatman's</td>
<td>8.4181</td>
<td>8.5893</td>
<td>96.1241</td>
<td>$1,507,171.98</td>
</tr>
<tr>
<td>8,700,000</td>
<td>U.S. Treasury Bond 0.000% 11-15-16</td>
<td>Boatman's</td>
<td>0.0000</td>
<td>8.5123</td>
<td>10.0080</td>
<td>948,822.00</td>
</tr>
<tr>
<td>3,860,000</td>
<td>U.S. Treasury Bond 0.000% 06-15-18</td>
<td>Boatman's</td>
<td>0.0000</td>
<td>8.3065</td>
<td>9.9450</td>
<td>363,987.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Household Finance Corp. 9.550% 04-01-00</td>
<td>STW</td>
<td>9.8415</td>
<td>9.9999</td>
<td>99.0510</td>
<td>990,510.00</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 8.125% 06-15-19</td>
<td>STW</td>
<td>8.7248</td>
<td>8.7795</td>
<td>93.1250</td>
<td>931,250.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$5,608,315.51</strong></td>
<td></td>
<td></td>
<td><strong>85,808,131.51</strong></td>
</tr>
</tbody>
</table>
### THE OHIO STATE UNIVERSITY
#### Fixed Income Sales

**Sales Made During Period**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Price</th>
<th>Total Sale</th>
<th>Gain (Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000</td>
<td>Service Corporation International 9.000% 06-01-19</td>
<td>Boatmen's</td>
<td>89.8510</td>
<td>$898,510.00</td>
<td>$(101,490.00)</td>
</tr>
<tr>
<td>3,710,000</td>
<td>U.S. Treasury Bond 0.000% 02-15-19</td>
<td>Boatmen's</td>
<td>9.8170</td>
<td>364,210.70</td>
<td>9,423.40</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Community Program Loan Trust 4.500% 10-01-18</td>
<td>Boatmen's</td>
<td>58.6562</td>
<td>586,562.50</td>
<td>8,078.88</td>
</tr>
<tr>
<td>1,000,000</td>
<td>International Business Machines 8.375% 11-01-19</td>
<td>Boatmen's</td>
<td>90.7600</td>
<td>907,600.00</td>
<td>$(82,200.00)</td>
</tr>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond 8.125% 08-15-19</td>
<td>Cambridge</td>
<td>94.9375</td>
<td>854,437.50</td>
<td>(11,253.13)</td>
</tr>
<tr>
<td>517,373</td>
<td>Ford Credit 1989A Grantor Trust 8.700% 10-17-94</td>
<td>STW</td>
<td>98.7658</td>
<td>510,986.89</td>
<td>(4,284.50)</td>
</tr>
<tr>
<td>400,000</td>
<td>U.S. Treasury Bond 9.250% 02-15-18</td>
<td>STW</td>
<td>106.8719</td>
<td>426,687.50</td>
<td>(13,712.72)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>New York State Dorm. Series B 7.250% 05-15-15</td>
<td>STW</td>
<td>93.7200</td>
<td>937,200.00</td>
<td>(20,300.00)</td>
</tr>
</tbody>
</table>

**Total** | | | $5,488,395.09 | $(216,436.07) |
# THE OHIO STATE UNIVERSITY
Real Estate Investments

<table>
<thead>
<tr>
<th>Buildings and 3.9 acres at Boardwalk Street and Mediterranean Avenue</th>
<th>Yield</th>
<th>Year Acquired</th>
<th>Carrying Value</th>
<th>Appraised Value</th>
<th>Date Acquired</th>
</tr>
</thead>
<tbody>
<tr>
<td>48.98%</td>
<td>1960</td>
<td>$4,275,000</td>
<td>$4,275,000</td>
<td>10/69</td>
<td></td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>0.00%</td>
<td>1971</td>
<td>100,793</td>
<td>641,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00%</td>
<td>1980</td>
<td>25,333</td>
<td>(1) 25,333</td>
<td>N/A</td>
</tr>
<tr>
<td>17.92 acres of land on Eberman Road</td>
<td>0.00%</td>
<td>1962</td>
<td>25,162</td>
<td>725,000</td>
<td>08/89</td>
</tr>
<tr>
<td>51 acres of land, 2609 West Granville Road</td>
<td>0.00%</td>
<td>1972</td>
<td>160,285</td>
<td>2,689,000</td>
<td>06/89</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>0.00%</td>
<td>1987</td>
<td>544,398</td>
<td>4,567,000</td>
<td>06/89</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>0.03%</td>
<td>1979</td>
<td>310,538</td>
<td>6,663,000</td>
<td>08/89</td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>0.00%</td>
<td>1989</td>
<td>225,079</td>
<td>2,749,000</td>
<td>08/89</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>0.19%</td>
<td>1988</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>08/89</td>
</tr>
<tr>
<td>12 acres of land, 3489 West Granville Road</td>
<td>0.00%</td>
<td>1985</td>
<td>24,000</td>
<td>1,080,000</td>
<td>08/89</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>0.00%</td>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>08/89</td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1376 South Hamilton Road</td>
<td>2.84%</td>
<td>1988</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>0.00%</td>
<td>1988</td>
<td>180,000</td>
<td>283,000</td>
<td>08/89</td>
</tr>
<tr>
<td>Building and 2.633 acres at 900 Kenny Road</td>
<td>21.84%</td>
<td>1961</td>
<td>859,630</td>
<td>1,250,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.41 acres at 960 Kenny Road</td>
<td>17.38%</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 8.328 acres at 1991 Kenny Road</td>
<td>8.81%</td>
<td>1968</td>
<td>170,000</td>
<td>698,000</td>
<td>08/89</td>
</tr>
<tr>
<td>Building and 3.295 acres at 830 Kinnear Road</td>
<td>7.97%</td>
<td>1982</td>
<td>435,204</td>
<td>1,550,000</td>
<td>08/89</td>
</tr>
<tr>
<td>Building and 5.58 acres at 1100 Kinnear Road</td>
<td>3.74%</td>
<td>1984</td>
<td>825,000</td>
<td>2,650,000</td>
<td>08/89</td>
</tr>
<tr>
<td>20.968 acres of land on Shier-Rings Road</td>
<td>0.00%</td>
<td>1978</td>
<td>241,848</td>
<td>1,165,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>8.08%</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,480,000</td>
<td>02/89</td>
</tr>
</tbody>
</table>

$15,599,983 $43,969,022

(1) Amount represents balance on loan made to Department of Aviation
APPENDIX LXV

THE OHIO STATE UNIVERSITY CAMPAIGN PROGRESS REPORT
March 31, 1990

Presented to the Investments Committee and
Adopted by the Board of Trustees May 3, 1990
(See page 984)
### The Ohio State University Campaign Progress Report as of March 31, 1990

<table>
<thead>
<tr>
<th></th>
<th>*Campaign Expectancies</th>
<th>Current Year Campaign Receipts (Jul 89-Mar 90)</th>
<th>Previous Years' Campaign Receipts As of June 30, 1989</th>
<th>Total</th>
<th>Campaign Goal</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni</td>
<td>$74,645,800</td>
<td>$7,757,527</td>
<td>$54,101,474</td>
<td>$136,504,801</td>
<td>$122,500,000</td>
<td>112</td>
</tr>
<tr>
<td>Friends</td>
<td>46,172,443</td>
<td>7,396,236</td>
<td>35,289,619</td>
<td>88,888,298</td>
<td>70,000,000</td>
<td>127</td>
</tr>
<tr>
<td><strong>Corporations</strong></td>
<td>13,143,402</td>
<td>11,395,683</td>
<td>143,559,753</td>
<td>168,955,438</td>
<td>122,500,000</td>
<td>138</td>
</tr>
<tr>
<td>Foundations</td>
<td>2,726,125</td>
<td>3,001,908</td>
<td>25,891,857</td>
<td>31,693,765</td>
<td>35,000,000</td>
<td>91</td>
</tr>
<tr>
<td>Totals</td>
<td>$136,687,770</td>
<td>$29,551,354</td>
<td>$258,842,703</td>
<td>$425,581,027</td>
<td>$350,000,000</td>
<td>122</td>
</tr>
</tbody>
</table>

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.
APPENDIX LXVI

PERSONNEL COMMITTEE LETTER

Adopted by the Board of Trustees May 3, 1990
(See page 993)
May 3, 1990

Dr. Edward H. Jennings
President
205 Bricker Hall
190 N. Oval Mall
CAMPUS

Dear Dr. Jennings:

With the hope that you will remain on the faculty of the University in the Department of Academic Finance for a significant length of time, the following offer, approved by the Trustees, is made to you.

You have agreed to accept appointment as President for the additional period of two months, terminating the end of August, 1990.

At that time, you will assume the position of full Professor of Academic Finance commencing with Autumn Quarter 1990. Your salary will be $119,680 for the nine month academic year 1990-1991. Should you elect, you may take a professional leave at full compensation during the academic year 1990-1991, including the Summer Quarter 1991, so that you will not be required to assume teaching, service and research responsibilities until October of 1991. In addition, you may, should you desire, teach the Summer Quarter 1992, and each of the summer quarters in the three subsequent years. If you choose to teach during any summer quarter, your annual appointment will be increased to a full eleven months for those affected academic years, and your compensation will be proportionately adjusted.

In addition, as a further recognition for your service to this University as its President for nine years and as inducement for you to continue your work on the faculty, an annuity contract will be purchased equivalent to providing you a supplemental pretax pension income of $60,000 per year commencing at age 60. The annuity payments will continue for and during your natural life. You will also be paid money sufficient to enable you to pay any current tax obligations
that might be incurred by you in the year of, and as a result of, the annuity's purchase.

Your continuing tenured position on the faculty, your annual compensation adjustments, and your employment in general, except insofar as modified herein, shall be governed by University Rules and policies affecting all faculty.

We wish you well and hope that you and this University will have a long, mutually beneficial relationship.

Sincerely,

Chairperson Trustee
Personnel Committee

cc: Vice President for Academic Affairs
Dean, College of Business Administration
APPENDIX LXVII

THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET - 3RD QUARTER REPORT

Presented to the Fiscal Affairs Committee and
Adopted by the Board of Trustees May 3, 1990
(See page 1007)
Summary of Proposed Resources
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1989-90</th>
<th>Estimated 1989-90</th>
<th>$ Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$452.39</td>
<td>$453.79</td>
<td>$1.40</td>
<td>.3%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>346.34</td>
<td>344.14</td>
<td>-2.20</td>
<td>-.6%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>220.07</td>
<td>220.17</td>
<td>.10</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$1,018.80</td>
<td>$1,018.10</td>
<td>$.70</td>
<td>-.1%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>27.65</td>
<td>29.25</td>
<td>1.60</td>
<td>5.8%</td>
</tr>
<tr>
<td>OARDC</td>
<td>33.84</td>
<td>33.84</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$1,080.29</td>
<td>$1,081.19</td>
<td>$.90</td>
<td>.1%</td>
</tr>
</tbody>
</table>
Summary of Proposed Uses
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>Budgeted 1989-90</th>
<th>Estimated 1989-90</th>
<th>$ Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted General Funds</td>
<td>$452.39</td>
<td>$453.79</td>
<td>$1.40</td>
<td>.3%</td>
</tr>
<tr>
<td>Earnings Operations</td>
<td>346.23</td>
<td>343.80</td>
<td>-2.43</td>
<td>-.7%</td>
</tr>
<tr>
<td>Restricted Funds</td>
<td>220.07</td>
<td>220.17</td>
<td>.10</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$1,018.69</td>
<td>$1,017.76</td>
<td>-.93</td>
<td>-.1%</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>27.42</td>
<td>27.73</td>
<td>.31</td>
<td>1.1%</td>
</tr>
<tr>
<td><strong>OARDC</strong></td>
<td>33.84</td>
<td>33.84</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td>$1,079.95</td>
<td>$1,079.33</td>
<td>-.62</td>
<td>-.1%</td>
</tr>
</tbody>
</table>
### All Funds Resources Summary
(In Millions of Dollars)

| Central Campus | General Funds Operations Restricted Funds Estimated 1989-90 Budgeted 1989-90 |
|----------------|---------------------------------|---------------------------------|----------------|----------------|
| State Appropriations | $263.58 | $0.00 | $39.17 | $302.75 | $304.64 |
| Student Fees | 156.57 | 5.00 | 0.00 | 161.57 | 158.69 |
| Other Resources | 17.28 | 85.60 | 102.88 | 102.88 |
| Federal Grants and Contracts | 0.00 | 13.00 | 13.38 | 13.38 |
| Ohio Grants and Contracts | 0.74 | 13.10 | 13.84 | 13.84 |
| Local Grants and Contracts | 4.05 | 60.50 | 64.55 | 61.86 |
| Endowment Income | 1.55 | 8.80 | 10.35 | 10.35 |
| Department and University Services | 0.37 | 28.74 | 28.77 |
| Auxiliary Sales & Charges | 0.02 | 222.45 | 222.45 |
| Hospital Sales & Services | 0.00 | 222.45 | 222.45 |
| Other Sources | 9.25 | 13.05 | 13.34 |
| Total Other Resources | $33.64 | $339.14 | $181.00 | $553.78 | $555.47 |
| Total Central Campus | $453.79 | $344.14 | $220.17 | $1,018.10 | $1,018.80 |

| Regional Campuses | General Funds Operations Restricted Funds Estimated 1989-90 Budgeted 1989-90 |
|-------------------|---------------------------------|---------------------------------|----------------|----------------|
| State Appropriations | 13.61 | 0.00 | 0.03 | 13.44 | 13.30 |
| Student Fees | 10.82 | 5.13 | 0.00 | 10.95 | 9.77 |
| Other Resources | 0.05 | 1.69 | 2.52 | 4.86 | 4.58 |
| Total Regional Campuses | $24.88 | $1.82 | $2.55 | $29.25 | $27.65 |

| OARDC | General Funds Operations Restricted Funds Estimated 1989-90 Budgeted 1989-90 |
|-------|---------------------------------|---------------------------------|----------------|----------------|
| State Appropriations | 0.00 | 21.70 | 21.70 |
| Federal | 0.00 | 7.60 | 7.60 |
| All Other | 0.00 | 2.73 | 4.54 | 4.54 |
| Total OARDC | $0.00 | $1.81 | $32.03 | $33.84 | $33.84 |

| Total University | General Funds Operations Restricted Funds Estimated 1989-90 Budgeted 1989-90 |
|-----------------|---------------------------------|---------------------------------|----------------|----------------|
| State Appropriations | 276.99 | 60.90 | 337.89 | 339.64 |
| Student Fees | 167.39 | 5.13 | 172.52 | 168.46 |
| Other Resources | 34.29 | 193.85 | 570.78 | 572.19 |
| Total University | $478.67 | $347.77 | $254.75 | $1,081.19 | $1,080.29 |
THE OHIO STATE UNIVERSITY
1989-90 CURRENT FUNDS BUDGET
3RD QUARTER REPORT

All Funds Uses Summary
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th>General Funds</th>
<th>Earnings Operations</th>
<th>Restricted Funds</th>
<th>Estimated 1989-90</th>
<th>Budgeted 1989-90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>$452.70</td>
<td>$33.37</td>
<td>$204.28</td>
<td>$690.35</td>
<td>$689.15</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>.00</td>
<td>37.11</td>
<td>.00</td>
<td>37.11</td>
<td>38.65</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>.00</td>
<td>17.93</td>
<td>4.00</td>
<td>21.93</td>
<td>21.93</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>1.09</td>
<td>30.34</td>
<td>.00</td>
<td>31.43</td>
<td>32.02</td>
</tr>
<tr>
<td>Total Auxiliaries</td>
<td>$1.09</td>
<td>$85.38</td>
<td>$4.00</td>
<td>$90.47</td>
<td>$92.60</td>
</tr>
<tr>
<td>University Hospitals</td>
<td>.00</td>
<td>225.05</td>
<td>11.89</td>
<td>236.94</td>
<td>236.94</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$453.79</td>
<td>$343.80</td>
<td>$220.17</td>
<td>$1,017.76</td>
<td>$1,018.69</td>
</tr>
</tbody>
</table>

|                      |               |                     |                  |                   |                  |
| Regional Campuses    |               |                     |                  |                   |                  |
| Agricultural Technical Institute | 5.30   | .84                | .00              | 6.94              | 6.57             |
| Lima Campus          | 4.58          | .08                | .45              | 5.11              | 5.49             |
| Mansfield Campus     | 4.61          | .05                | .50              | 5.16              | 4.94             |
| Marion Campus        | 4.07          | .03                | .50              | 4.60              | 4.74             |
| Newark Campus        | 5.05          | .57                | .30              | 5.92              | 5.68             |
| Total Regional Campuses | $23.61     | $1.57              | $2.55            | $27.73            | $27.42           |
| OARDC                | .00           | 1.81               | 32.03            | 33.84             | 33.84            |
| Total Uses           | $477.40       | $347.18             | $254.75          | $1,079.33         | $1,079.95        |
### Distribution of 1989-90 Resources

**Central Campus, Regional Campuses & OARDC**

(In Millions of Dollars)

<table>
<thead>
<tr>
<th>Source</th>
<th>All Funds</th>
<th>Percent of Total</th>
<th>Unrestr. General (4)</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>$337.89</td>
<td>31.3%</td>
<td>$276.99</td>
<td>57.9%</td>
</tr>
<tr>
<td>Federal Grants &amp; Contracts</td>
<td>110.48</td>
<td>10.2%</td>
<td>17.28</td>
<td>3.6%</td>
</tr>
<tr>
<td>Other Government Sources</td>
<td>27.22</td>
<td>2.5%</td>
<td>1.12</td>
<td>.2%</td>
</tr>
<tr>
<td>Student Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructional (1)</td>
<td>167.39</td>
<td>15.5%</td>
<td>167.39</td>
<td>39.0%</td>
</tr>
<tr>
<td>Non-Credit Instruction</td>
<td>5.13</td>
<td>.5%</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Hospitals Sales / Services</td>
<td>222.45</td>
<td>20.6%</td>
<td>.00</td>
<td>.0%</td>
</tr>
<tr>
<td>Other Sales / Services (2)</td>
<td>113.28</td>
<td>10.5%</td>
<td>.39</td>
<td>.1%</td>
</tr>
<tr>
<td>Private Gifts &amp; Grants</td>
<td>64.55</td>
<td>6.0%</td>
<td>4.05</td>
<td>.8%</td>
</tr>
<tr>
<td>Endowment</td>
<td>10.35</td>
<td>1.0%</td>
<td>1.55</td>
<td>.3%</td>
</tr>
<tr>
<td>Other Sources (3)</td>
<td>22.45</td>
<td>2.1%</td>
<td>9.90</td>
<td>2.1%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,081.19</strong></td>
<td><strong>100.0%</strong></td>
<td><strong>$478.67</strong></td>
<td><strong>100.0%</strong></td>
</tr>
</tbody>
</table>

(1) Includes instructional, general, non-resident, and misc. other fees.
(2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
(3) Includes temporary investments, prior years' earnings, rental income, etc.
(4) Excludes all earnings and restricted funds.
APPENDIX LXVIII

UNIVERSITY HOSPITALS EMERGENCY DEPARTMENT MASTER PLAN - PHASE I, HOLDING AREA AND HYPERBARIC OXYGEN THERAPY

Adopted by the Board of Trustees May 3, 1990
(See page 1029)
UNIVERSITY HOSPITALS
EMERGENCY DEPARTMENT
MASTER PLAN, PHASE I

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 3, 1990
APPENDIX LXVIII

MASONRY IMPROVEMENTS (BRICKER HALL)
OARDC ENTOMOLOGY GREENHOUSE
MASONRY IMPROVEMENTS (KOFFOLT LABORATORY)
SEAGRANT SCHOOL PROJECT - SOUTH BASS & GIBRALTAR ISLANDS

Adopted by the Board of Trustees May 3, 1990
(See page 1030)
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

BRICKER HALL MASONRY REPAIRS

Tabulation of Bids

Bids received by The Ohio State University on February 14, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>H. K. Phillips</th>
<th>Trisco</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$61,000.00</td>
<td>$52,900.00</td>
<td>$56,788.00</td>
</tr>
<tr>
<td>Alt. G-1 (N. Stone Steps)</td>
<td>15,000.00</td>
<td>4,500.00</td>
<td>8,443.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$76,000.00</td>
<td>$57,400.00</td>
<td>$65,231.00</td>
</tr>
</tbody>
</table>

May 3, 1990
May 3, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

OARDC ENTOMOLOGY GREENHOUSE

Tabulation of Bids

Bids received by The Ohio State University on March 14, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Estimate</th>
<th>Freeman *</th>
<th>Finnegan</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Contract</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$142,230.00</td>
<td>$131,900.00</td>
<td>$143,900.00</td>
</tr>
<tr>
<td>Alt. G-1 (Concrete Floor)</td>
<td>6,700.00</td>
<td>7,900.00</td>
<td>14,800.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$148,930.00</td>
<td>$139,800.00</td>
<td>$158,700.00</td>
</tr>
<tr>
<td>Mechanical Contract</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$10,870.00</td>
<td>$11,981.00</td>
<td></td>
</tr>
<tr>
<td>Alt. P-1 (Floor Drains)</td>
<td>2,500.00</td>
<td>910.00</td>
<td></td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alt. P-2 (Fin Tube Radiant Heating)</td>
<td>6,500.00</td>
<td>6,586.00</td>
<td></td>
</tr>
<tr>
<td>Electric Contract</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Bid</td>
<td>$12,200.00</td>
<td>$10,200.00</td>
<td>$11,800.00</td>
</tr>
</tbody>
</table>
May 2, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

KOFOLT LABORATORY MASONRY IMPROVEMENTS

Tabulation of Bids

Bids received by The Ohio State University on March 15, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Miles +</th>
<th>McDaniels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$100,000.00</td>
<td>$67,110.00</td>
<td>$78,793.00</td>
</tr>
<tr>
<td>Alt. G-1 (Slab Jacking)</td>
<td>9,000.00</td>
<td>4,600.00</td>
<td>2,084.00</td>
</tr>
<tr>
<td>Alt. G-2 (Tuck Pointing Screen Walls)</td>
<td>18,000.00</td>
<td>4,200.00</td>
<td>17,842.80</td>
</tr>
<tr>
<td>Alt. G-3 (Entrance Replacement)</td>
<td>20,000.00</td>
<td>18,700.00</td>
<td>19,402.80</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$147,000.00</td>
<td>$94,610.00</td>
<td>$118,126.60</td>
</tr>
</tbody>
</table>
KOFFOLT LABORATORY
MASONRY IMPROVEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
MAY 3, 1990
May 3, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

SEAGRANT SCHOOL PROJECT - ROOF REPLACEMENT

Tabulation of Bids

Bids received by The Ohio State University on March 21, 1990. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Nordean &amp;</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$73,000.00</td>
<td>$76,666.00</td>
<td>$77,400.00</td>
</tr>
</tbody>
</table>
OFFICE OF BUSINESS AND ADMINISTRATION
May 3, 1990
APPENDIX LXX

195 and 201 EAST 16TH AVENUE
COLUMBUS, OHIO

Adopted by the Board of Trustees May 3, 1990
(See page 1034)
Proposed Sale of Real Property
195 and 201 East Sixteenth Avenue

Office of Business and Administration
May 3, 1990
Proposed Sale of Real Property
Marysville Veterinary Clinic
Marysville, Ohio

Marysville Veterinary Clinic

Residence
Clinic Building

14.984 Acres

No True Scale

Office of Business and Administration
May 3, 1990
APPENDIX LXXII

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

June 8, 1990

1081
Edward H. Jennings
Doctor of Humane Letters

Edward H. Jennings' years as president of The Ohio State University have been marked by creativity, adaptability, and achievement. He has provided dynamic leadership during a critical time in the University's history while adhering to the highest ideals of an academic institution.

Jennings became the 10th president of The Ohio State University on September 1, 1981, after two years as president of the University of Wyoming. He also holds an appointment as professor in the Academic Faculty of Finance, a position to which he will return full-time this September. Previously, he was vice president for finance and university services at the University of Iowa, where he was also a faculty member for 10 years.

Born in Minneapolis, Jennings grew up in Washington, D.C. He received a B.S. degree in industrial management from the University of North Carolina in 1959, an M.B.A. degree from Western Reserve University (now Case Western Reserve) in 1963, and a Ph. D. in finance from the University of Michigan in 1969.

Jennings took Ohio State's helm at a time when higher education budgets had been significantly reduced to offset the state's fiscal difficulties. His leadership and expertise provided the decisive action needed to stabilize the University's financial situation. He then set an ambitious course to transform Ohio State into one of the nation's preeminent institutions of higher learning.

With an unwavering commitment to excellence, Jennings provided leadership for the recruitment of outstanding academicians and researchers to the faculty and instilled in existing faculty a renewed sense of pride. He encouraged a better prepared undergraduate student body through selective admissions and advocated for a strengthened undergraduate curriculum with the introduction of a new general education program. He has championed wide-ranging affirmative action programs to bring minorities into the University community.

In 1985, he launched The Ohio State University Campaign, the largest private fund-raising effort ever attempted by a public institution. That campaign, which ends in June, has exceeded its $350 million goal by raising more than $420 million in gifts and pledges for University priorities.

During his tenure, the face of the University has changed. The Wexner Center for the Visual Arts was funded, completed, and opened. The Arthur G. James Cancer Hospital and Research Institute and the Woody Hayes Athletic Center were built, and many other major building or renovation projects were carried out.

Jennings' leadership has extended to local, state, national, and international arenas. He has been a spokesperson for public higher education and land-grant institutions. He is a member of numerous civic and business boards, effecting a mutually beneficial "town-gown" relationship. His interest in global issues has resulted in his leading Ohio State delegations to the People's Republic of China, Taiwan, Spain, Italy, France, and the Dominican Republic.

Through his concern for the present and his vision of the future, Jennings has positioned The Ohio State University to be a model for the comprehensive academic and research institutions of the 21st century. It is with gratitude and pride that Ohio State presents Edward H. Jennings as the 312th commencement speaker.
Recipients of Honors

Helen P. Alkire
Doctor of Education

A pioneer in integrating dance into the context of higher education, Helen P. Alkire is a beacon for new generations of dancers, choreographers, directors, and educators.

After joining the Ohio State faculty in 1946, Alkire took dance from an area within the Department of Physical Education to a fully realized academic discipline in the College of the Arts. After the formation of the Department of Dance in 1968, Alkire served as professor and chair until her retirement in 1983.

Alkire received her B.S.Ed. and M.S. degrees from Ohio State in 1938 and 1939 respectively. She pursued doctoral studies at Columbia University Teachers College and holds professional certificates from Connecticut College and Bennington College. She studied professionally with dancers whose names compile a "Who's Who" of modern dance, including Martha Graham, Doris Humphrey, Louis Horst, Charles Weidman, Hanya Holm, and Jose Limon.

Alkire is a central figure in the development of dance as a significant art form in American education. She envisioned and implemented a dance program founded on performance but broadened through studies in dance history, dance education, and dance research.

Through her diligence and determination, Alkire bridged the gap between the professional and academic worlds, parlaying professional dancers and artists to come to Ohio State as faculty members and visiting artists. She recognized the importance of recording, preserving, and reconstructing dance. Ohio State's dance program was the first in higher education, outside of Juilliard, to teach notation.

Alkire is a founding member of the Council of Dance Administrators and played a vital role in the creation of the National Association of Schools of Dance, the only accrediting agency for degree-granting programs in the field. She was instrumental in establishing the American College Dance Festival Association (ACDFA) to recognize performance and choreographic excellence in higher education. This year's ACDFA Northeast Regional Festival was dedicated to her.

Alkire continues to be an energetic spokesperson for the value of dance in higher education. It is a fitting tribute to her that Ohio State continues to have one of the nation's top dance programs. Ohio State is proud to recognize the accomplishments of this remarkable individual.

Hildegard E. Peplau
Doctor of Humane Letters

As a scholar, teacher, clinician, and creative thinker, Hildegard E. Peplau has exerted a profound influence on the science of nursing. Her classic 1952 book, Interpersonal Relations in Nursing, revolutionized the field by defining the nurse-patient relationship as the essence of nursing practice and the means by which to facilitate the healing process. Widely regarded as the founder of psychiatric nursing, Peplau formulated theories that paved the way for the movement from custodial to therapeutic care in mental hospitals throughout the world.

Peplau is professor emerita and former director of the Graduate Program, Psychiatric Nursing, in the College of Nursing, Rutgers, The State University of New Jersey, where her tenure spanned two decades of teaching, research, and service. Her career began with her 1931 graduation from the Pottstown (Pa.) Hospital Training School for Nurses. She was appointed executive officer of health service at Vermont's Bennington College in 1937 and received a bachelor's degree in interpersonal psychology from Bennington in 1943.

After wartime duty in the Army Nurse Corps, Peplau returned to graduate studies at Teachers College, Columbia University, receiving an M.A. degree in teaching and supervision of psychiatric nursing in 1947 and an Ed.D. degree in curriculum development in 1953. A year later, she was awarded the certificate of psychoanalysis applied to teaching from the William Alanson White Institute in New York City.

Peplau developed and implemented the first graduate program for nurses that focused exclusively on the preparation of clinical specialists in psychiatric nursing. She has lectured extensively throughout the world, and her innovative graduate nursing programs have been widely replicated. In the 1970s, during her two-year term as visiting professor at Katholieke University of Leuven, Belgium, she developed the first post-baccalaureate program in nursing in Europe. She has served three times as a visiting professor in Ohio State's College of Nursing, where she was instrumental in laying the foundation for the college's doctoral program.

Because of her sustained scholarship and clinical excellence, Peplau is deservedly recognized throughout the world as a leader in nursing. Ohio State would like to add its recognition to her many honors.
Charles McMurray, Jr.  
**Distinguished Service Award**

Charles McMurray, Jr., has been a tireless worker on behalf of his alma mater for 40 years. A native of Sandusky, he received his bachelor of science degree in social administration from The Ohio State University in 1950. He served in the United States Navy from 1943 to 1946.

After briefly serving as a cottage parent at Boy's Industrial School in Lancaster and as research supervisor at the State of Ohio's Department of Mental Hygiene, McMurray was named a probation officer and intake supervisor in the Franklin County Court of Domestic Relations, Juvenile Division, a position he held from 1952 to 1968. For the past 23 years he has been with The Ohio Bell Telephone Company, where he now serves as community relations manager.

An active civic, corporate, and alumni leader, McMurray has a special interest in helping minority scholar-athletes. As a key member of the Merrymakers Club of Columbus, he was instrumental in initiating an annual fund-raising event that supports minority scholarships at Ohio State. In addition, he started a resource list of Black families willing to serve as hosts to out-of-state Black athletes.

McMurray's dedication to Ohio State is also evidenced by the service he has given to its Athletic Council for eight years; the Alumni Association as a member of the Alumni Advisory Council for two terms; the WOSU-TV Board of Governors; the University's National Scholarship Fund-Raising Committee; the Office of Minority Affairs Community Advisory Council; the Advisory Committee on Campus Grievances; and the Jesse Owens Foundation.

His civic involvement is extensive and has included membership on the boards of Community Resources for the Encouragement of Economic Resources (CREED), the Columbus Chapter of People United to Save Humanity (PUSH), Columbus Leadership Council, Capital Square Commission, Columbus Urban League, and the American Red Cross.

McMurray's quiet and effective leadership has helped bridge the gap between the Black community and the University, enabling Ohio State to take an active role in minority student recruitment and retention. He has consistently helped Ohio State communicate that the University is firm in its commitment to the well-being of its minority students, faculty, and staff. For these many contributions, Ohio State is pleased to extend this recognition to Charles McMurray, Jr.

Alex Schoenbaum and Betty Frank Schoenbaum  
**Distinguished Service Award**

Alex and Betty Schoenbaum are among Ohio State's most enduring friends and supporters. They have accumulated a long and distinguished record of service to the University that has consistently exceeded all expectations.

Both Mr. and Mrs. Schoenbaum attended Ohio State's College of Business; Mr. Schoenbaum graduated in 1939 with a bachelor of science degree. Although they reside in Charleston, West Virginia and Longboat Key, Florida, the Schoenbaums have retained close ties to the University where they met. Alex and the former Betty Jane Frank were married in 1940 and have four grown children.

Together the Schoenbaums have provided inspiration and leadership to The Ohio State University Campaign. Mr. Schoenbaum has served as director of the Development Foundation Board, director of the University Foundation, and is currently a member of the National Steering Committee. They are each members of the Presidents Cabinet, the highest recognition level within the Presidents Club.

The Schoenbaums have lent their support to widely divergent areas at Ohio State, but their focus has always been the students. They share a deep commitment to academic excellence at their alma mater by ensuring opportunities for promising students to attend Ohio State. Toward this end, they have established the Schoenbaum Scholarship Program to benefit students in the colleges of Business and Education. A fund established in 1966 supports graduate instruction and research in business administration.

Mr. Schoenbaum, who lettered as a varsity football player in 1936, 1937, and 1939, serves as volunteer national chair of Ohio State's Campaign for Athletic Excellence and was instrumental in the funding of the new Woody Hayes Athletic Center.

Mr. Schoenbaum is founder and retired senior chairman of the board of Shoney's Inc., a restaurant chain located throughout the Southeast, West, and Midwest.

The Schoenbaums' generosity extends beyond the University community to include numerous civic, charitable, and philanthropic activities, including the Schoenbaum Park Project in Charleston, West Virginia; the Betty and Alex Schoenbaum Human Services Center in Sarasota, Florida; the City of Hope Medical Center in California; the federated Jewish Charities of West Virginia; and the Sarasota Jewish Federation.

Through their enthusiasm and willingness to invest time and talent, Alex and Betty Schoenbaum define the ideals of volunteer service. Ohio State proudly recognizes their high standard of leadership.
Recipients of Honors

James Vaughn Warren
Distinguished Service Award

For nearly half a century, James Vaughn Warren was regarded as one of the nation's most respected medical educators and researchers. His pioneering work in cardiovascular research laid the basis for much of today's cardiology.

A native of Columbus, Warren received his B.A. degree from Ohio State in 1935, graduated from Harvard Medical School in 1939, and completed his residency and research fellowship at Boston's Peter Bent Brigham Hospital. He taught medicine at Emory University Medical School, where he served as chair of the department of physiology; at Yale University Medical School; at Duke University; and at the University of Texas Medical School, where he was chair of the department of medicine.

In 1961, he returned to Ohio State to become professor and chair of medicine. He stepped down as chair in 1979, but continued as professor until 1986 when he assumed emeritus status. After his retirement, he volunteered his administrative time as director of the Medical Humanities Program, an area that has since expanded to teach and enhance interpersonal skills for future physicians.

One of Warren's most notable and enduring research efforts, carried out with his colleague Dr. Eugene A. Stead Jr., defined the mechanisms of congestive heart failure. Other research focused on the mechanisms of shock, cardiac arrhythmias, and sudden death. In the 1940s, Warren became one of the first physicians to use cardiac catheterization for diagnostic purposes.

A prolific writer, his contributions to medical journals number in the hundreds, and he authored several books for the general public, including Surviving Your Heart Attack, which won the American Heart Association's Blakeslee Award in 1985. He served as president of the American Heart Association in 1961.

He has received numerous honors and awards, including the city of Columbus' Christopher Columbus Award, which recognized his work in training Columbus firemen in emergency medical procedures.

Through his clinical expertise, his brilliant research, and his abiding interest in humanity, Warren enriched Ohio State's Department of Internal Medicine, enabling it to become one of the nation's outstanding teaching departments.

Dr. Warren passed away in February of this year, and the University is proud to posthumously honor him with its Distinguished Service Award.
The Graduate School

Dean: Roy A. Koenigskechter

Doctor of Musical Arts

Glen Roger Davis, Columbus; B.M. (Berklee College of Music); M.Mus.; Music
Dr. Ann K. Blomback, Dr. Thomas Wells

Mary Jane Fahrenbruck, Yellow Springs; B.Mus.Ed.; M.Mus. (University of Michigan); Music
Dr. Sylvia Zaremba

Doctor of Philosophy

Michael Richard Adams, Columbus; B.A. (Colby College); Chemistry
Dr. Andreu Wojcicki

R. Miebi Akah, Ondo, Nigeria; B.Sc., M.S. (Mankato State University); M.A.; Health, Physical Education and Recreation
Dr. Philip Heit

Ghazi Daifallah Al-Sheitaawi, Taibeh-Irbid, Jordan; B.A. (University of Damascus); M.A. (Yarmouk University); Vocational Education, Comprehensive Program
Dr. N. L. McCaslin

Alan Brett Albarran, Columbus; B.A., M.A. (Marshall University); Communication
Dr. John Dimmick

Alan Armstrong, Columbus; B.Mus.Ed.; M.Mus. (Bradley University); Music
Dr. Les A. Rosow

Bruce Warren Aument, Columbus; B.A. (Capital University); M.A.; Anthropology
Dr. William S. Dancey

Mathew Thomas Baker, Vernon, TX; B.S., M.Ed. (Texas Technical University); Agricultural Education
Dr. J. David McCracken

Karen Sue Basinger, Columbus Grove; B.Ed.; M.A.; Psychology
Dr. John C. Gibbs

Sara Bennett Battison, Loudonville; B.S. (Case Western Reserve University); M.Ed. (Kent State University); Education
Dr. Gill McCutcheon

Mary Therese Berry, Cleveland; B.A. (Notre Dame of Ohio); M.A. (Middlebury College); Education
Dr. Elizabeth B. Bernhardt

Giulia Anna Bonaminio, Lorain; B.S. (Bowling Green State University); M.S.; Molecular Genetics
Dr. Nathan S. Fechheimer

Jane Ellen Breneman, Lancaster, PA; B.A. (Pennsylvania State University); M.A.; Psychology
Dr. Gerald A. Winer

Robert James Campbell, Columbus; B.S., M.S.; Preventive Medicine
Dr. Richard Lanese

Douglas Joseph Carpenter, Plain City; B.A. (Ohio Dominican College); M.A. (Xavier University); Education
Dr. William W. Wagon

James Martin Chapman, Santo, TX; B.S. (Tarleton State University); Pharmacy
Dr. Robert W. Cutley

Chengping Chen, Hubei, P.R.C.; B.S. (Huazhong Agricultural University); M.S.; Entomology
Dr. Dennis L. Denlinger

Hung-Hsu Fred Chen, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.A.; Mechanical Engineering
Dr. Neil Robertson

Yujen Chou, Kaohsiung, Taiwan, R.O.C.; B.A. (National Chung Hsing University); M.A. (National Chung Chi University); Political Science
Dr. William Liddle

Hwei-Lin Chuang, Taipei, P.R.C.; B.A. (National Taiwan University); M.A.; Economics
Dr. Randall J. Olsen

Hyunsook Chung, Seoul, South Korea; B.S., M.S. (Yonsei University); Human Ecology
Dr. Geoffrey K. Leigh

Jonathan Bradley Clark, Rossford; B.S. (Bowling Green State University); Molecular Genetics
Dr. Paul A. Fuerst

Nikki Schafer Conklin, Ostrander; B.S.H.E.; M.S.; Human Ecology
Dr. Joan E. Grinaker

Donna Miles Curry, Dayton; B.S., M.S. (Saint Louis University); Human Ecology
Dr. Ellen Hock

Michael Rosario De Felippis, Fort Lee, NJ; B.S. (Fairleigh Dickinson University); OSU Biochemistry Program
Dr. M. Klapper

Asli Demirguc-Kunt, Istanbul, Turkey; B.A. (Bosphorus University); M.A.; Economics
Dr. Edward J. Kane

Lisa Marie Ellram, Brooklyn Center, MN; B.S., M.B.A. (University of Minnesota); M.A.; Business Administration
Dr. Bernard J. LaLonde

Jan Paquette Eriksen, Columbus; B.A., M.A., M.A.; Education
Dr. William D. Doubling

Steven Gregory Estes, Columbus; A.B.; M.A. (San Diego State University); Health, Physical Education and Recreation
Dr. Phillip L. Smith

Sheryl Lynn Finkle, Polo, IL; B.S., M.S. (Illinois State University); English
Dr. Sara Garnes

Diane Rene Fisher, Columbus; B.A., M.A.; Romance Languages and Literatures
Dr. Stephen J. Summerhill

Elizabeth Ann Fitzpatrick, Ebenburg, PA; B.S. (Indiana University of Pennsylvania); Medical Microbiology and Immunology
Dr. Raymond W. Lang

Stavros A. Frangoulidis, Brooklyn, NY; B.A. (Aristoteliean University); M.A.; Classics
Dr. Carl Schlamp

Donald Edward Frazier, Jr., Columbus; B.S., M.S.; Veterinary Pathobiology
Dr. Melinda J. Turr

Deborah Krawczak Galides, Pittsburgh, PA; B.S. (Pennsylvania State University); M.S. (Stanford University); M.S.; Industrial and Systems Engineering
Dr. Philip J. Smith

Srinivas Gariimella, Visakhapatnam, India; B.Tech. (Indian Institute of Technology); M.S.; Nuclear Engineering
Dr. Richard N. Christensen

Zhi-xing Albert Ge, Shanghai, P.R.C.; B.S. (Eastern Michigan University); M.S. (University of Michigan); Microbiology
Dr. Donald H. Dean

Richard Everett Goodman, Spokane, WA; B.S. (Eastern Washington University); Dairy Science
Dr. Floyd L. Schlabach

Amy Wright Goodwin, Columbus; B.A. (Allegheny College); M.A. (Carnegie-Mellon University); English
Dr. Lisa J. Kiser

Lyubomirina Parpulova Gribble, Columbus; M.A. (Sofia University); K.F.N. (Bulgarian Academy of Sciences); Slovene and East European Languages and Literature
Dr. F. R. Silbajoris

Roy Arthur Grindstaff, Mount Vernon; B.A., M.A. (Olivet Nazarene University); M.Div. (Asbury Theological Seminary); Communication
Dr. William R. Brown

Joanna Ronk Grosh, Springfield; B.A. (Cedarville College); M.A.; English
Dr. Robert C. Jones

Peter Byron Grosshans, Cincinnati; B.A. (University of Colorado); Chemical Physics
Dr. Alan G. Marshall
Yan Gu, Peking, P.R.C.; Certificate (Baotou Medical School); M.S. (East Stroudsburg State University); Veterinary Physiology and Pharmacology
  Dr. Young C. Lin

Gary Wade Hallum, Olmsted Falls; B.S.C.E.R.E., M.S. (Ceramic Engineering
  Dr. Charles H. Drummond

Abigail Harding, Worthington; B.S. (University of Wisconsin); Education
  Dr. Stanley L. Helgeson

Kevin Michael Harvey, Dallas, TX; B.A. (Northwestern University); Psychology
  Dr. Charles Wener

Mahbubul Hassan, Dhaka, Bangladesh; B.S.Ed. (Ohio University); M.S.; Nuclear Engineering
  Dr. Frank A. Kapral

Inger Alice Hoelzle, Wooster; B.S., M.A. (University of Akron); English
  Dr. Robert H. Wagoner, Dr. June K. Lee

Nadine Katherine Hinton, Columbus; B.S.Ed. (Ohio University); M.S.; Psychology
  Dr. Philip M. Clark

Rosaline Louise Hoefel, Granville; B.A., B.A. (University of Akron); English
  Dr. Barbara H. Rigby

Kevin Michael Harvey, Dallas, TX; B.A. (Northwestern University); Psychology
  Dr. Charles Wener

Donnie Ray King, Ware Place, SC; B.S., M.Agr. (Clemson University); Agricultural Education
  Dr. Keith L. Smith

Karen Elizabeth Kovacs, Los Angeles, CA; B.A. (University of California at Los Angeles); M.A.; Psychology
  Dr. Robert Arkin

Edward Stanley Jarmul, Springdale, PA; B.S., M.S. (Pennsylvania State University); Biomedical Engineering
  Dr. Herman R. Weed

Hyuk Soo Jang, Seoul, South Korea; B.S. (Seoul National University); M.S.; Computer and Information Science
  Dr. M. T. Liu

David Joseph Kalamas, Charleroi, PA; B.A., M.A.; Education
  Dr. James E. Sage

DuEwa Akinwole Kamara, Prince George, VA; B.S. (Virginia Commonwealth University); Finance
  Dr. Edward J. Kane

Shang-Juh Kao, Yun Lin, Taiwan, R.O.C.; B.S. (National Cheng-chi University); Economics
  Dr. Donald H. Haurin

Kristen Margaret Kask, Powell, B.S. (Wagner College); M.Ed. (Bridgewater State College); Education
  Dr. Lucern L. Cunningham

Young Tag Keum, Seoul, South Korea; B.E. (Han-Yang University); M.S.; Engineering Mechanics
  Dr. Robert H. Wagoner, Dr. June K. Lee

Daee Li, Shanshi, P.R.C.; B.S. (Nankai University); OSU Biochemistry Program
  Dr. George A. Marzluf

Kyung Hee Lee, Seoul, South Korea; B.S. (Sogang University); M.S.; Molecular Genetics
  Dr. Nathan Fechheimer

Miroslav Lovric, Zagreb, Yugoslavia; B.S. (University of Zagreb); M.S.; Mathematics
  Dr. Ernst A. Rhue

Jeffrey Daniel Madden, Columbus; B.A. (Don Bosco College); M.A., M.Div. (Pontifical College Josephinum);
  Dr. Pamela S. Highlen

Daphne Main, Columbus; B.S. (The University of Vermont); M.S. (Western Michigan University); Accounting and Management Information Systems
  Dr. Andrew D. Bailey, Jr.
Chamu Namasiyavayam, Madras, India; B.S., M.A. (University of Madras); M.A.: Philosophy
Dr. George S. Pappas

Cheryl Lynn Noll, St. Clairsville; B.S. (Wheeling College); M.B.A. (Wheeling College); Education
Dr. Anthony A. Olinzek

Conleth Seanus O'Connell, Jr., Miami, FL; B.S. (Florida International University); M.S.; Computer and Information Science
Dr. Sandra Mamrak

Judith L. Oslin, Cleveland; B.S., M.A. (Kent State University); Health, Physical Education and Recreation
Dr. Daryl L. Siedentop, Dr. Sandra A. Stroot

Dee-Yu Pai, Taipei, Taiwan, R.O.C.; Bachelor's, Master's (National Taiwan University); Agricultural Economics and Rural Sociology
Dr. Leroy Hushak

Roy E. Palmer, Logan; B.A. (Otterbein College); M.A.: Vocational Education, Comprehensive Program
Dr. Arthur L. White

Barbara Sue Payne, Rushville, IN; B.Mus.Ed. (Augustaana College); M.M. (University of Arizona); Music
Dr. A. Peter Costanza

Carla G. Phillips, Chillicothe; B.S.N. (Ohio University); M.S.; Health, Physical Education and Recreation
Dr. Philip Heit

Irma Elodea Phillips-Carmichael, Brooklyn, NY; B.A. (MacMurray College); M.A. (University of Iowa); Education
Dr. James V. Wagl

Terry Daniel Piper, Bethlehem, PA; B.S. (Pennsylvania State University); M.A. (University of Iowa); Education
Dr. Robert F. Rodgers

Deuk Soo Pyun, Seoul, South Korea; B.S., M.S. (Seoul National University); Physics
Dr. Thomas R. Lemberger

Nancy Palmer Redding, Lima; B.S. (College of Mount Saint Joseph-on-the-Ohio); M.Ed. (University of Cincinnati); Education
Dr. William D. Doubling

Paul Allen Reid, Alexandria, VA; B.B.A. (New Mexico State University); M.B.A.; Education
Dr. David L. Boggs

Kathleen Nowak Riffe, Worthington; B.S. (Ithaca College); M.A.; Education
Dr. Susan Jones Sears

Gwendolyn Rippey, Columbus; B.A., B.S. (Miami University); M.A.: Communication
Dr. Victor D. Wall

Jeffrey John Roberts, Columbus; B.A. (Cornell University); M.A.; History
Dr. Williamson Murray

Deborah Ann Ruch, Cortland, NY; B.S.Ed.; M.S. (Ithaca College); Health, Physical Education and Recreation
Dr. Daryl Siedentop

Judith Sonya Rycus, Columbus; B.A., M.S.W. (Wayne State University); Psychology
Dr. Henry Leland

David Vincent Rypien, Canton; B.S. (Wash College); M.A.; Welding Engineering
Dr. Laslo Adler

Harry E. Sarvis, Jr., Columbus; B.S.; OSU Biochemistry Program
Dr. Ming-Dau Tsoi

Mary Beth Bateman Schirzinger, Columbus; B.A., M.S.W.; Human Ecology
Dr. Ellen Hock

Carolyn Woodford Schmidt, Columbus; B.F.A. (Miami University); M.A.; History of Art
Dr. John C. Huntington

William Francis Sharkey IV, Columbus; B.A. (Glassboro State University); M.A.; Communication
Dr. Donald Cegala, Dr. Laura Stafford

Kim Franklin Shirley, Columbus; B.Mus. (College of Wooster); M.Mus. (University of Oklahoma); Music
Dr. A. Peter Costanza

Mohammad Seyed Siahpush, Tehran, Iran; B.S. (Istah University); M.S. (University of Utah); Sociology
Dr. Robert Kaufman

Sheila Marilyn Sinnott, Greensboro, NC; B.Sc. (University of British Columbia); M.Sc. (University of Alberta); Human Ecology
Dr. Loren V. Geistfeld

Cynthia Susan Snyder, Columbus; B.S. (Denison University); M.A.; Education
Dr. Robert R. Bergar

Andrew Mlinvuvure Sobiesuo, Nandom Upper West, Ghana; B.A. (University of Ghana); M.A.; Romance Languages and Literature
Dr. Stephen J. Summerhill

John Edward Sohl, St. Petersburg, FL; B.S. (University of West Florida); B.S.; Physics
Dr. Randall D. Knight

Yongin Song, Seoul, South Korea; B.S. (Seoul National University); M.S.; Mathematics
Dr. Zbigniew Fiedorowicz

Jeffrey Richard Spitzner, Westerville; B.S.; Molecular, Cellular, and Developmental Biology
Dr. Mark Muller

Paul Anthony Sproll, Cambridge, England; B.A. (The Open University); M.A.; Art Education
Dr. Kenneth Marantz

Michael Warren Squires, Chesterville; B.S., Agr.; M.S.; Poultry Science
Dr. Edward C. Naber

Joan Broyles Stallard, Harlan, KY; B.S. (University of Kentucky); M.Ed. (Emory University); Education
Dr. I. Philip Young

Richard Charles Stehouwer, Columbus; B.A. (Calvin College); M.Sc. (Cornell University); Agronomy
Dr. Jay W. Johnson

James Clement Stone, Evansville, IN; B.A. (Saint Edward's University); M.A. (University of Wyoming); Education
Dr. Rudine Sims Bishop

Somchai Sujjapongse, Bankok, Thailand; B.A. (Chulalongkorn University); Economics
Dr. Nelson C. Mark

Gregor MacDougall Taulbee, Pittsburgh, PA; B.S. (University of Pittsburgh); M.S.E. (University of Pennsylvania); Computer and Information Science
Dr. Bruce W. Weide

Julie Marie Tebo, Marinette, WI; B.S. (Saint Norbert College); Microbiology
Dr. Richard Mortensen

Stuart Barden Tennant, Worthington; B.A., M.A.; Education
Dr. Robert F. Rodgers

Leo Douglas Thompson, Columbus; B.S. (Virginia Polytechnic Institute); Microbiology
Dr. Charles J. Daniels

Phyllis Elizabeth Thompson, Newark, B.A. (University of Oregon); M.A. (University of Wisconsin); Education
Dr. David Boggs

Michael McLean Thomson, Superior, WI; B.S. (University of Wisconsin at Superior); M.S. (Winona State University); Education
Dr. Joseph J. Quanrant

Jeffrey Bryant Travers, Wapakoneta; B.S.; Pharmacology
Dr. Richard Fertel
Ho-Yeol Paul Yoo, Seoul, South Korea; B.A.; M.A. (Korea University); Political Science
Dr. R. William Liddle
Jung Sook Yoon, Kwangju City, South Korea; B.A. (Chun-nam National University); M.A. (Ohio University); Education
Dr. James W. Altschuld
Geoffrey Harris Young, Somerset, NJ; B.A. (Hampton University); M.A.; Psychology
Dr. Siween J. Beck
Nancy Carol Zajano, Worthington; B.A. (Saint Norbert College); M.A. (Roosevelt University); Education
Dr. Brad L. Mitchell, Dr. Charles M. Galloway

Master of Applied Statistics
Mark Joseph Dobrin, Monroe Falls; B.S.; Statistics
Robert M. Eddy, Middletown, PA; B.S. (Millersville University); Statistics
Yingying Liao, Shin-Lin, Taiwan, R.O.C.; B.A. (Chung-Yuan Christian University); Statistics
Heide Ann Morgan, Granville; B.S. (Denison University); Statistics
Andrew Dennison Taylor, Columbus; B.A. (Harvard College); Ph.D. (Duke University); Statistics

Master of Architecture
Jeffrey Alan Hissem, Cincinnati; B.S. (University of Cincinnati); Architecture
Robert James Holland, Jr., Columbus; B.S. Arch.; Architecture
Patrick Thomas Kelly, Roseville; B.S. Arch.; Architecture
Chiu-Yeong Wu, Taichung, Taiwan, R.O.C.; Diploma (National Taipei Institute of Technology); B.A. (Iowa State University); Architecture

Master of Arts
Lily Manueca Ada, Accra, Ghana; B.S. (University of Science and Technology); M.S. (University of Iowa); Business Administration
Deborah Sue Akers, Columbus; B.A., M.Liberal Stds.; Anthropology
Gaeld Ali Al-Qahtani, Asair, Saudi Arabia; B.S. (Riyad University); M.S.; Economics
Ibttissam Alama, Dublin; B.S.C.I.S.; Education
Abbe True Allen, Whitehall; B.A. (Miami University); M.A.; Education
Dana Lynne Allen, Columbus; B.A. (Hendrix College); Romance Languages and Literatures
Kimberly Stygler Allen, Columbus; B.S.Ed.; Education
Timothy LeeAllen, Warren; B.S.Ed.; Education
Virginia Miller Ambler, Herndon, VA; B.A. (The College of William and Mary); Education
Lisa Ann Amoroso-Johnson, Cuyahoga Falls; B.A. (The University of Akron); Psychology
Carol Francis Annink, Amsterdam, Netherlands; Bachelor's, Master's (University of Amsterdam); Black Studies
Susan Faun Bailey, Columbus; B.A. (The University of Akron); Education
Maria Grazia Baker, London, England; B.A. (York University); M.A. (Clark University); Romance Languages and Literatures
Katherine Marie Barkhurst, Worthington; B.S.Ed.; Education
Claudia Barnett, New York, NY; B.A. (Cornell University); English
Marco Barsacchi, Pisa, Italy; Laurea (Università Di Pisa); Romance Languages and Literatures
Kathleen Louise Bawbaw, Buxton; B.S.Ed.; (Kent State University); Education
Gregory Wayne Bass, Waco, TX; B.A. (University of Texas at Dallas); Political Science
Margaret Lynn Bates, Reynoldsburg; B.S.Ed.; Education
Margaret Louise Batross, Columbus; B.A.; Public Policy and Management
James Sherman Baugess, Galloway; B.A. (Carson-Newman College); M.Div. (Southeastern Baptist Theological Seminary); Education
Gaylene Patrice Beam, Lancaster; B.A. (Ohio Wesleyan University); Speech and Hearing Science
Lon Scott Beery, El Paso, TX; B.M. (Heidelberg College); Music
Mary Carol Beidler, Lancaster; B.A. (The College of Wooster); Theatre
Carolyn Ann Benns, Columbus; B.A. (University of Northern Colorado); Education
Matthew Kurt Berent, Madison Heights, MI; B.A. (Concordia College); Psychology
Susan Miller Berkley, Lancaster; B.S. (Baldwin-Wallace College); Mathematics

Neera Sharad Bhave, Baroda, India; B.Sc. (Maharaja Sayajirao University); Education

Judith Dawn Blackmore, Worthington; A.B. (Miami University); Classics

Karen Ann Blair, Newbury; B.S.Ed.; Health, Physical Education and Recreation

Margaret Mary Bolovan, Toledo; B.A. (Kenyon College); Romance Languages and Literatures

Joy R. Bostic, Fort Wayne, IN; B.A. (Indiana University); Public Policy and Management

John Russell Bowen, Memphis, TN; B.A. (Memphis State University); Black Studies

Thomas Arthur Bowman, Marion; B.S. (Brigham Young University); Education

Virginia Ruth Boynton, Gaithersburg; B.G.S., M.S.W. (University of Michigan); History

Anita Marie BovoZo, Schenectady, NY; B.A. (State University of New York at Potsdam); Psychology

Laura Ann Beattie, Centerville; B.S.; Psychology

Debra Ware Brathwaite, Reynoldsburg; B.S.Ed. (University of Dayton); Education

Thomas Arlin Bredehoft, Columbus; B.A. (Cornell University); English

Janice Irene Brennemann, Columbus; B.Mus. (Bowling Green State University); Music

Diana Warden Brewer, Columbus; B.S.Ed.; Education

Kristin Diane Brockmann, Cincinnati; B.S.Ed.; Education

Scott Mallon Brooks, Piedmont, CA; B.S. (Cornell University); Psychology

James Jonathan Brown, Edinburg, PA; B.S.Ed.; Public Policy and Management

Jo Ann Reeder Brubraker, Carroll; B.A.Jour.; B.S.Nurs.; Health, Physical Education and Recreation

Kim Kelli Budd, Columbus; B.S.Ed.; Education

William Lawrence Bulson, Lexington, KY; B.A. (University of Kentucky); Slavic and East European Languages and Literatures

Renee Lynn Burkey, Warren; B.S.Nurs.; Health, Physical Education and Recreation

Giannina L. Burlando, Santiago, Chile; Licenciate (University of Chile); Philosophy

Mary Esther Burns, Dayton; B.S., D.M.D. (University of Pittsburgh); M.S.; Education

Nancy Bandringa Busby, Compton, CA; B.S. (California State University at Northridge); Education

Craig Samuel Butler, Portland, ME; A.B. (Harvard University); East Asian Languages and Literatures

Oscar Raul Carvallo, Talcualhuano, Chile; Bachelor's (Universidad de Concepcion); Education

Irene Pui-Shan Chan, Columbus; B.S.Ed.; Health, Physical Education and Recreation

Hui-fang Chang, Taiwan; R.O.C.; B.A. (National Cheng-Kung University); Education

Sumin Chang, Tou-nan, Taiwan; R.O.C.; Bachelor's (National Taiwan University); Business Administration

Hueh-I Shirley Chen, Peitou, Taipei, Taiwan; R.O.C.; B.A. (Fu-Jen Catholic University); Education

Ya-Mei Chen, Taipei, Taiwan; R.O.C.; B.A. (Fu-Jen Catholic University); Journalism

Regina B. Chess, Columbus; B.S. (Marquette University); Health, Physical Education and Recreation

Ya-Wen Eunice Chyu, Taipei, Taiwan; R.O.C.; B.S. (Fu-Jen Catholic University); Music

Stacey Kevin Close, Bainbridge, GA; B.A. (Albany State University); History

Brian Lee Clouse, Warren; B.A. (Kent State University); Romance Languages and Literatures

Karen Patricia Coggins, Dayton; B.A. (University of Dayton); Slavic and East European Studies

Mark Anthony Cole, Columbus; B.S.Ed., M.A., M.A.; Public Policy and Management

Jonathan Charles Comer, Mooresville, IN; B.A. (Indiana University); Geography

Randall Alan Condra, New Albany, IN; B.S. (Ball State University); German

Anna Lucinda Cook, Columbus; B.A. (Meredith College); Industrial Design

Jodi Luaine Cooley, Rose City, MI; B.S. (Michigan State University); Health, Physical Education and Recreation

Robert Anthony Corso, Westlake; B.A. (Denison University); Anthropology

Susan Jo Caykendall, Southfield, MI; B.A. (Kalamazoo College); Psychology

Monica Rose Crabtree, Medina; B.A. (University of Akron); M.A. (Middlebury College); Linguistics

Phyllis Foit Crough, Columbus; B.S.N. (Niagara University); Health, Physical Education and Recreation

John Richard Croyle, Columbus; B.A.; Photography and Cinema

David G. Darby, Dearborn, MI; D.D.S. (University of Detroit); Education

Kelly Lynn Davis, Broken Bow, NE; B.A. (University of Nebraska); Education

Stephanie Ann Davis, New Albany; B.S.Ed.; Education

Joseph Michael De Rico, Columbus; B.S.Ed.; Education

Darrell Mitchell DeLoach, Savannah, GA; B.S. (Savannah State College); Mathematics

Michael Drake DeWitt, Delaware; B.A. (Ohio Wesleyan University); Health, Physical Education and Recreation

Kelly Ann Delaney, Battle Creek, MI; B.A. (Albion College); Psychology

Brian Clark Delong, Allenton, PA; B.A. (Shippensburg University); Education

Jacques Jean-Francois Denis, Nantes, France; DESCAF (ESCAE Nantes); Business Administration

Edwin Ralph Desmond, Columbus; B.A. (Elmhurst College); Public Policy and Management

Kathleen Jean DiPofi, Toledo; B.A. (University of Toledo); Romance Languages and Literatures

Lawrence Leo Dieker, Jr., Columbus; B.A.Jour.; English

Margaret Jones Dillon, Hilliard; B.A.; Speech and Hearing Science

June M. Donmoyer, Worthington; B.A. (Susquehanna University); Education

Saroja Devi Dorairajoo, Singapore; Singapore; B.A., B.Soc.Sci. (National University of Singapore); Anthropology

Michael Edward Duda, Hudson; B.S.Bus.Adm.; Education

Cheri Firchow Dunlap, Pickerington; A.B. (Ohio University); Education

Marlaina Fisher Ebben, Columbus; B.S.L.H.R.; Public Policy and Management

Daniel Charles Eichmeier, Aurora, IL; B.A. (Columbia College); Photography and Cinema

Claire Louise Esmond, Upper Arlington; B.A.; Romance Languages and Literatures

Gareth Miles Etridge, Bournemouth, England; B.A. (Oxford University); English

David Robert Evans, Lubbock, TX; B.S. (Columbia Bible College); M.A. (Grace Theological Seminary); Education

Laurent Marie Fabre, Strasbourg, France; DESCAF (ESCAE Nantes); Business Administration
Charles Edward Farmer, Dayton; B.A. (Wilberforce University); Journalism
Karen Lee Findley, Toledo; B.S.Ed.; Education
Arthur William Flicker, Columbus; B.A. (Northwestern University); History
Rebecca Lynne Flowers, Wadsworth; B.A.Jour.; English
Daniel Carl Funk, Liberty, KS; B.A. (University of Kansas); Health, Physical Education and Recreation
Trent Tracy Gages, Mansfield; B.S.Ed.; Education
David Roger Garrett, Columbus; B.A.; Business Administration
Leah Sheppard Gerard, Columbus; B.S.H.E.; Education
Daniel Francis Gibbons, Cleveland; B.A. (Ohio Wesleyan University), Education
Stephen Paul Glick, Columbus; B.A. (George Washington University); History
Rosemary Ruth Gliem, Marion; B.A.; Education
Sue Goeppinger, Fredericktown; B.A. (Wilmington College); Education
James Roy Goldlett, Middletown; B.A.; Education
Rosa Grangel-Furió, Castellón, Spain; B.F.A. (University of Valencia); Romance Languages and Literatures
David Robert Gray, Kankakee, IL; B.A. (Western Illinois University); History
Natalie Pam Green, Beltzville, MD; B.A. (University of Michigan); Education
Jeri Susan Greenberg, Brooklyn, NY; B.F.A. (University of New Mexico); Dance
Keith Philip Griffler, Virginia Beach, VA; B.A. (University of North Carolina); History
Kay Ellen Gunka, Lima; B.S.Ed.; Education
Edward G. Gwazausinesss, Grove City; B.S.Ed.; Education
Barbara Jean Hamilton, Mansfield; B.S.Ed.; Education
Joan Handy, Columbus; B.A. (University of Pennsylvania); Education
Peter John Hansen, Dechon, IA; B.A. (Wheaton College); Psychology
Karen Anne Hartman, Granville; B.S.Ed.; Education
David Allen Hater, Cincinnati; B.S.Bus.Adm.; Philosophy
Melissa Ann Hathaway, Fredericktown; B.A. (Mount Vernon Nazarene College); Education
Mark Albert Herder, Upper Arlington; B.A.; Political Science
Diana Susan Hergatt, Mansfield; B.S.Soc.Wel.; Education
Luís Gerardo Hermosilla, San Carlos, Chile; B.A. (Universidad de Chile); Romance Languages and Literatures
Mary Heather Hickman Davis, Columbus; B.A. (Glenville State College); Education
Janice Maureen Hoffman, Columbia, SC; B.A. (Winthrop College); Education
Jeannette Ann Holpp, South Point; A.B. (Ohio University); Languages
Bin Hong-Zeh, Guangzhou, P.R.C.; B.A. (Beijing Institute of Physical Education); Health, Physical Education and Recreation
Brenda Stuart Hough, Little Compton, RI; B.A. (Denison University); Psychology
Colleen Marie Houser, Columbus; B.S. (Clarke College); Education
Tsay-yang Chen Huang, Chia-yi, Taiwan, R.O.C.; B.A. (Chinese Cultural University); Education
Tracy Allen Hunker, Bascom; B.F.A.; Journalism
Kim-Oanh Thi Huynh, Nanticoke, PA; B.S. (East Stroudsburg University); Speech and Hearing Science
Karen Sue Hyland, Marysville; B.S.Ed.; Mathematics
David Howard Israel, Lakehurst, NJ; B.A. (State University of New York at Binghamton); M.L.H.R.; Psychology
Hollie Ann Jacobs, Minnetonka, MN; B.A. (Rhodes College); Classics
Lake Jasmine Jagger, East Meadow, NY; A.B. (University of Michigan); Sociology
Richard W. Jewett, Jr., Dublin; B.S.Ed. (Bowling Green State University); Education
Chuen-Huey Jiang, Chia-Yi, Taiwan, R.O.C.; B.A. (National Taiwan University); Communication
Kimberly Joycelyn Jones, Chicago, IL; B.A. (University of Michigan); Journalism
Madoka Kawamura, Seto, Japan; B.A. (Rikkyo University); East Asian Languages and Literatures
Cheryl Helene Keegan, Boston, MA; B.S. (Marietta College); Mathematics
Michael Ray Kelly, Orem, UT; B.S., M.P.A. (Brigham Young University); Slavic and East European Languages and Literatures
Hilary Lynn Kisel, Columbus; B.A. (Mount Holyoke College); Education
Catharine B. Klunk, Columbus; B.S.A.Hth.Prof.; Health, Physical Education and Recreation
Jae Bang Koh, Kwangju, South Korea; B.A. (Seoul National University); M.P.A.; Political Science
Hsiao-Ling Kuo, Taoyuan, Taiwan, R.O.C.; B.A. (Fu-Jen Catholic University); Linguistics
Claudia Kurz, Böblingen, West Germany; Bachelor's (Free University of Berlin); Linguistics
Byungok Kwon, Seoul, South Korea; B.A. (Korea University); Philosophy
Kellie Marie Lajiness, Newport, MI; B.F.A. (Western Michigan University); Dance
Randi Ellen Lake, Greene, NY; B.A. (Denison University); Health, Physical Education and Recreation
Yong Lao, Kunming, P.R.C.; Geography
Douglas Andrew Lapp, Coshocton; B.S.Ed.; Mathematics
Karen Ann Larson, Columbus; B.A. (Dana College); Education
David Keith Lawler, Columbus; B.A. (Franklin University); Health, Physical Education and Recreation
Lenore Ruth Lawson, Billings, MT; B.S. (Colorado State University); Education
Polly Ann Leeper, Marion; B.A. (Bluffton College); Public Policy and Management
Helene Françoise Legal, Les Sables, France; DESCAF (ESCAE Nantes); Business Administration
Wei-Jer Lin, East Brunswick, NJ; B.S. (National Cheng-Kung University); Industrial Design
Yeong-Jann Lin, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Geography
Sara Marie Lindsey, Marion; B.S.Ed.; Education
Mei-Ying Liu, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Education
Ronald Lee Lofton, Columbus; B.A. (Wright State University); Education
Carol Louise Lorenz, Columbus; B.S. (Duquesne University); Education
Susan Van Benschoten Luke, Dublin; B.A. (Lowell State University); Education
Erik Anderson Landell, Columbus; B.S.Ed.; Education
Kathleen Mary Lux, Columbus; B.S.Nurs.; M.S. (University of Hawaii at Manoa); Health, Physical Education and Recreation
Tara Ann Maloney, Bronxville, NY; B.A. (Denison University); Health, Physical Education and Recreation

Lesia Mandzia, Cleveland; B.A. (Hiram College); M.S.W.; Public Policy and Management

Karl Whitmer Martin, Columbus; B.A.; Education

Jamie M. Mathews-Mead, Charlotte, MI; B.S. (Central Michigan University); Education

Erin Ann McCafferty, Cleveland; B.A. (Saint Mary’s College); M.A. (Bowling Green State University); Education

Paula Jill McCurdy, Columbus; B.S. (Ohio University); Education

Nicholas Robert McGovern, Ashland; B.A. (Ashland University); Education

Margery Susan McKaIG, Columbus; B.S. (West Virginia University); Speech and Hearing Science

Christine G. McLoud, Mansfield; B.S. (University of London); Education

Sandra Meador-Winchester, Columbus; B.S. (Bowling Green State University); Speech and Hearing Science

John Edward Miller, Lexington; B.A. (Mount Vernon Nazarene College); Education

Neil Frederick Miller, Columbus; B.S. (Miami University); East Asian Languages and Literatures

Janet Elise Montgomery, Springfield, NC; B.A. (University of Miami); Art Education

Kenneth Albert Moody-Arnt, Newtown, CT; B.A. (University of Bridgeport); M.A. (United Theological Seminary); English

James Joseph Moore, Cleveland, A.B. (John Carroll University); Classics

Lucinda Sue Morehead, Lancaster; B.S. (Bowling Green State University); Speech and Hearing Science

Javed Mostafa, Chittagong, Bangladesh; B.S. (Northwestern Oklahoma State University); Education

Roger David Musgrave, Steubenville; B.A., M.A.; Public Policy and Management

Andy J. Nabbefeld, Appleton, WI; B.A. (University of Wisconsin at Milwaukee); Romance Languages and Literatures

Kari Lynn Nelson, Coronado, CA; B.A. (University of California at San Diego); Slavic and East European Studies

Rebecca Ruth Nelson, Columbus; B.A. (Linfield College); Education

Joseph Alan Nidy, North Canton; B.S.; Education

Angela DeSantis Norton, Columbus; B.S. (Pennsylvania State University); Public Policy and Management

Jane Louise Oakley, Hamilton; B.A. (University of Dayton); Sociology

Freddie R. Oblacion, Albay, Philippines; B.S., M.B.A. (University of the Philippines); Sociology

William Ollen Odom, Woodbridge, VA; B.A. (Purdue University); History

Rhonda Sue Oladure, Lancaster; B.A. (Ohio University); Romance Languages and Literatures

Christine E. O’Reilly, Marion; B.A.; Communication

Yuan-huai Ou, Taipei, Taiwan, R.O.C.; B.A. (Tamkang University); Education

Chih-Yun Pan, Shylin, Taiwan, R.O.C.; B.Ed.; Communication

Pin-Pin Pan, Ping-Tung, Taiwan, R.O.C.; B.A. (National Taiwan University); Education

Pamela Herring Parker, Westerville; B.S.; Education

Vera Beslin Paulson, Dublin; B.A. (Indiana University); Education

Phillip Gene Payne, Ironton; B.A. (Marshall University); History

Jeanne Ann Pecora, Amherst; B.S. (Kent State University); Education

Lorraine Margaret Peer, Groveport; B.S.Ed.; Education

Paul George Pierpaoli, Lisle, IL; B.A. (Hamden-Sydney College); History

Frederick C. Porcheddu, Danville, IL; B.A. (Denison University); English

Shawn Henry Potter, Colorado Springs, CO; B.A. (University of Northern Colorado); Education

Connie Corbett Powers, Columbus; B.A. (Ohio University); Psychology

Marjorie Regina Prince, Columbus; B.A.; Romance Languages and Literatures

Philip Timothy Pruett, Columbus; B.A.; Education

Diana Hisa Quilter, London; B.S.Ed.; Education

Karen Hassell Radecki, Westerville; B.S. (Ohio University); Education

Semyon Z. Rafelson, Brooklyn, NY; B.S. (Pedagogical Institute); Education

Kara Margaret Randall, Middleton, WI; B.A. (Lawrence University); Health, Physical Education and Recreation

Melissa Lyne Randies, Urbana; B.A. (Bowling Green State University); Journalism

Karen Marie Redmond, Hinckley; B.A. (Kent State University); Anthropology

Noriko Tsunoda Reider, Tokyo, Japan; Bachelor’s, Master’s (Sophia University); East Asian Languages and Literatures

Kevin O. Reinhart, Loudonville; B.A. (Earlham College); Education

David Thomas Richards, Hendersonville, NC; B.A. (George Washington University); Slavic and East European Languages and Literatures

Kimberly Lynne Rogge, Columbus; B.S.Ed.; Education

Rebecca Anne Rooney, Pittsburgh, PA; B.A. (Mary Washington College); M.Ed. (College of William and Mary); M.P.A. (University of Missouri); Psychology

Leslie Ann Ross, Columbus; A.B. (Kenyon College); M.S.). (Northwestern University); Dance

Heather Rachelle Ruland, Columbus; B.A.; History

Susan Marie Rupp, Sterling; B.S.Ed. (Ashland College); Health, Physical Education and Recreation

Judith Claire Sadler, Cincinnati; B.A. (Miami University); Romance Languages and Literatures

Diana Helen Sakellis, Ontario, Canada; B.S. (The University of Western Ontario); Speech and Hearing Science

Luís Salcedo, Jr., Los Angeles, CA; B.A. (University of California at Santa Barbara); Health, Physical Education and Recreation

Cathy S. Saltkield, Martins Ferry; B.A.; Speech and Hearing Science

Kristin Amy Samuelson, Turin, NY; B.S. (Rhatca College); Speech and Hearing Science

Atsuko Sato, Aizuwakamatsu, Japan; B.A. (National Chiba University); Art Education

Sharon A. Sandanoff, Mansfield; B.M.E. (Baldwin-Wallace College); Music

Tan E. Schiffr, Westbury, NY; B.Mus. (University of Cincinnati); Journalism

David Andrew Schmidt, Fond du Lac, WI; B.A. (University of Wisconsin at Madison); East Asian Languages and Literatures

Tatjana Schmidt, Berlin, East Germany; B.A. (Kunstehochschule); Industrial Design

John Fredrick Schweikart, Columbus; B.A. (University of Arizona); Anthropology

Debra Dane Scott, Lubbock TX; B.Mus.Ed. (Texas Technical University); Music

James Anthony Sedlacek, Belleville, MI; B.A. (Oberlin College); Health, Physical Education and Recreation
Connie Renee Zornes, Bucyrus; B.A. (University of Dayton); Romance Languages and Literatures

**Master of Business Administration**

**Kenton Jack Allen**, Franklin, PA; B.S. (Indiana University); Business Administration

Robert Christopher Amenta, Solon; B.S.B.A. (Bowling Green State University); Business Administration

Yvette Kelly Anigbogu, St. Croix, VI; B.S. (Xavier University); Business Administration

Elsie Jean Antrim, Columbus; B.S. (Miami University); Business Administration

Gerald Scott Arnold, Columbus; B.S.B.A. (Ohio Northern University); Business Administration

Treva LeAnn Backus, Columbus; B.B.A. (Florida Atlantic University); Business Administration

Brian Len Ballard, Beaumont, TX; B.B.A. (University of Texas of Austin); Business Administration

Nicholas E. Bandi, Dublin; B.A.; Business Administration

Reza Barkhi, Columbus; B.S.C.L.S.; Business Administration

Rodney Joseph Barnaby, Wibaux, MT; B.S. (University of Illinois at Urbana-Champaign); Business Administration

Lorinda Tomlinson Barnard, Dublin; Business Administration

Kamini Baxter-Kapoor, Dublin; B.A., D.D.S. (Columbia University); Business Administration

Jeffrey Douglas Becker, Powell; B.S.I.S.E.; Business Administration

John Joseph Beckham, Jr., Toledo; B.A. (University of Notre Dame); Business Administration

John Lee Behnfeldt, Bowling Green; B.S.Bus.Adm.; Business Administration

Nitin Kumar Bhargava, New Delhi, India; Bachelor's (University of Delhi); Business Administration

William Craig Birkins, Powell; B.S. (University of Wisconsin at Milwaukee); Business Administration

Michael Steven Blawas, Milwaukee, WI; B.B.A. (University of Wisconsin at Milwaukee); Business Administration

Rick E. Boo, Blair; B.A. (University of Nebraska at Lincoln); M.A.; Business Administration

Michael Francis Bors, Fort Wayne, IN; B.S. (University of Illinois at Urbana-Champaign); Business Administration

Debra Stevens Bosley, Powell; B.A.; Business Administration

Richard Kent Bradley, Columbus; B.A. (Trinity University); Business Administration

Jutta Lina Breitkreuz, Hilliard; B.B.A., B.A. (Kent State University); Business Administration

Barbara Sue Brooks, Dayton; B.S.H.E., M.S.; Business Administration

Patrick Joseph Brooks, Blacklick; B.S.M.E., M.S.; Business Administration

Estella Elores Brown, Columbus; B.S.Bus.Adm.; Business Administration

Louis Mark Busick II, Columbus; B.S.; Youngstown State University); Business Administration

Brenda Lorie Buuck, Decatur, IN; B.S. (Indiana Institute of Technology); Business Administration

Donald D. Caldar, Columbus; B.S.M.E.; Business Administration

William Michael Carr, Westerville, B.B.A. (Ohio University); Business Administration

Bernard Edward Cason, Miami, FL; B.A. (Johnson C. Smith University); Business Administration

Chien-Ting Chen, Taipei, Taiwan, R.O.C.; B.A. (Cheng Kung University); Business Administration

Chin-Chun Chen, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); Business Administration

Lunchang Chen, Taipei, Taiwan, R.O.C.; B.S. (Tsing Hua University); Business Administration

Shaobo Chen, Shenyang, P.R.C.; B.A. (University of International Business and Economics); M.P.A. (University of Texas at Austin); Business Administration

Barbara Little Chuko, Sandusky; B.A. (Sweet Briar College); Business Administration

Karen Marie Clark, Columbus; B.A. (Depauw University); Business Administration

Elizabeth Berkshire Coe, Gulf Breeze, FL; B.A. (Emory University); M.A.; Business Administration

Kevin Douglas Comer, Tiffin; B.S.Bus.Adm.; Business Administration

John Theodore Conomy, Chagrin Falls; B.S. (University of Maine); Business Administration

Thomas Barry Cook, Cleveland; B.S. (John Carroll University); Business Administration

Andrew Carl Corbin, Columbus; B.S.Bus.Adm.; Business Administration

Kathleen Marie Core, Niles; B.S.B.A. (West Virginia University); Business Administration

Gary Michael Corona, Cortland, B.S. (Ohio University); Business Administration

Neil Bennett Cousin, Wellesley, MA; B.A. (Miami University); Business Administration

Suzanne Covert, Reynoldsburg; B.B.A. (Ohio University); Business Administration

Kenneth Merrill Cruthers, Akron; B.S. (Baldwin-Wallace College); M.S. (Case Western Reserve University); Business Administration

Ricardo Cumplido Mayrock, Santiago, Chile; Bachelor's (University of Chile); Business Administration

Ranjan Hubert D'mello, Bombay, India; Bachelor's, Master's (University of Bombay); Business Administration

Glen Richard Davis, Dublin; B.S.Bus.Adm.; Business Administration

Mark Steven Davis, Arnold, MD; B.S. (Rensselaer Polytechnic Institute); Business Administration

Thomas Allen Davis, Brookville; B.A. (Judson College); Business Administration

Anne F. Davy, Stevens Point, WI; B.S. (University of Wisconsin at Stevens Point); Business Administration

Dale James Ditto, Van Wert; B.S. (Defiance College); Business Administration

Michael Dokmanovich, North Canton; B.S.Bus.Adm.; Business Administration

Michael Douglas Downing, Columbus Grove; B.S.Nat.Res.; Business Administration

Mary Ann Drumm, Bryan; B.S.; Business Administration

Arthur Dukes, Jr., Philadelphia, PA; B.A. (Howard University); Business Administration

Robert J. Enouen, Columbus; B.S.Bus.Adm.; Business Administration

George Joseph Evans, Pittsburgh, PA; B.S. (University of Pittsburgh); Business Administration

Marianne Falter, Beaver Creek; B.S.A.L.H.B.; Business Administration

William Hull Faust, Greensburg, PA; B.S. (Indiana University); Business Administration

William Fiorella, Dublin; B.B.A. (Saint Bonaventure University); Business Administration

Craig Joseph Fitzgerald, Fulton, NY; B.A. (University of Rochester); Business Administration

1094
Steve H. Gong, Euclid; B.S.Bus.Adm.; Business Administration
Eugene Lee, Columbus; B.A.; Business Administration
Helen Grace Hailey, Columbus; B.S.; Business Administration
Evelyn T. Hamilton, Columbus; B.S.; Business Administration
Eric J. Hardesty, Columbus; B.A.; Business Administration
Karen L. Hartman, Columbus; B.A.; Business Administration
John W. Hartman, Columbus; B.A.; Business Administration
Michael Anthony Hebert, Columbus; B.A.; Business Administration
Teresa Michelle Heffron, Columbus; B.S.; Business Administration
Thomas Alvin Heffron, Columbus; B.S.; Business Administration
J. James Heimlich, Columbus; B.S.; Business Administration
Terri J. Heisler, Columbus; B.A.; Business Administration
Tina Heitkamp, Columbus; B.A.; Business Administration
R. J. Heron, Columbus; B.A.; Business Administration
Andrea M. Hess, Columbus; B.A.; Business Administration
Sandra Lee Hess, Columbus; B.A.; Business Administration
John M. Hewitt, Columbus; B.A.; Business Administration
Karen S. Hill, Columbus; B.S.; Business Administration
Nancy J. Hite, Columbus; B.A.; Business Administration
W. A. Hoatson, Columbus; B.S.; Business Administration
Julie Ann Hobbs, Columbus; B.A.; Business Administration
Pamela Ann Slocnecker, Columbus; B.S.; (Olivet Nazarene University); Business Administration
Aimee Thorpe Ulstad, Marysville; B.S.M.E.; Business Administration

David Carl Ulstad, Brecksville; B.S.M.E.; Business Administration

Patrick Jon Ummel, Elkhart, IN; B.S. (University of Florida); Business Administration

David Eliot van Deusen, Columbus; B.S.M.E.; Business Administration

Augustinus Hubertus Verschuuren, Woensduinen, Netherlands; M.S. (Ryks Universiteit Utrecht); Business Administration

William David Ward, Columbus; B.A. (Bowling Green State University); B.S. (University of Miami); City and Regional Planning

Joey Dwayne Williams, Dayton; B.S.Arch.; Business Administration

John Martin Waugh, Cleveland; B.S. (Bowling Green State University); Business Administration

Beth Anne Webster, Franklin, IN; B.S.M. (Purdue University); Business Administration

William David Ward, Columbus; B.A. (Bowling Green State University); Business Administration

Benjamin David Watkins, Columbus; B.S. (West Virginia University); Business Administration

John Martin Waugh, Cleveland; B.S. (Bowling Green State University); Business Administration

William Lee Whitfield, Lorain; B.S.Bus.Adm. (Ashland College); Business Administration

Mary Lynne Whitfield, Youngstown; B.S. (Youngstown State University); City and Regional Planning

Gerald Joseph Widenhofer, Maple Heights; B.A. (Muskingum College); Business Administration

Joey Dwayne Williams, Dayton; B.S. (Central State University); Business Administration

Jeanne Marie Willke, Columbus; B.A.Jour.; Business Administration

Scott Forest Wilson, Elmhurst, IL; B.S. (Rose-Hulman Institute of Technology); Business Administration

Douglas Keith Winget, Stow; B.S.Bus.Adm.; Business Administration

Michael Douglas Wright, Hamilton; B.S.Agr., M.S.; Business Administration

Hideaki Yamao, Nagoya, Japan; B.A. (Kwansei Gakuin University); Business Administration

Earl Johnston Yearley, Savannah, GA; B.A. (University of South Carolina); Business Administration

David Bradford Yates, Columbus; B.B.A. (University of Cincinnati); Business Administration

Syuming Yen, Panchiao, Taiwan, R.O.C.; B.A. (Soochow University); Business Administration

Houston Clayton Young, Elyria; B.S.Bus.Adm.; Business Administration

Master of City and Regional Planning

Adil Abdulkarim Almumin, Kuwait; B.S. (University of Miami); City and Regional Planning

Vanessa Galvao, Uberlandia, Brazil; B.S. (Universidade Federal de Uberlandia); City and Regional Planning

Amjad Mushiq Gaher, Multan, Pakistan; B.Sc. (University of Engineering and Technology); City and Regional Planning

Shawn Ray Henry, West Chester; B.S. (East Tennessee State University); City and Regional Planning

Mark Herman Hoeweler, Cincinnati; B.A.; City and Regional Planning

Robert K. Hofacre, Lakeview, MI; B.S.N. (Michigan State University); City and Regional Planning

Polly Ann Keefer, Marion; B.A. (Bluffton College); City and Regional Planning

Maria Corazon Noel, Calamba, Laguna, Philippines; B.S. (University of the Philippines); City and Regional Planning

Robin Benita Ogletree, Columbus; B.A.; City and Regional Planning

Charissa Diane Payer, Youngstown; B.A. (Youngstown State University); City and Regional Planning

Todd Thomas Peetz, Strongsville; B.A. (Kent State University); City and Regional Planning

Aristotle K. Shinas, Windsor, Ontario, Canada; B.A. (University of Windsor); City and Regional Planning

Raymond Russell Swisher, Columbus; B.A.; City and Regional Planning

Evelyn Rose Warr, Toledo; B.A.; City and Regional Planning

Melpa Cordelia Williams, Columbus; B.Arch. (Hampton University); City and Regional Planning

Hanjun Yoo, Seoul, South Korea; B.A. (Yonseu University); M.P.A. (Seoul National University); City and Regional Planning

Master of Fine Arts

Stephen Vincent Billey, Scotts Bluff, NE; B.A. (California State University); Theatre Arts

Debra Lynn Cherniawsky, Alberta, Canada; B.F.A. (University of Manitoba); Art

Anne Orvedahl Cleveland, Columbus; B.A. (Trinity University); Theatre

Jane Hoffner Franklin, Boulder, CO; B.A. (University of Colorado); Dance

Joseph Hubert Frendo, Dublin, B.F.A. (Wayne State University); Art

L. J. Houdyshell, Springfield, MO; B.F.A. (Southwest Missouri State University); Theatre

Kristin Ann Kandert, Paterville, WI; B.A. (State University of New York at New Paltz); Theatre

Charles Franklin Murray, Shaker Heights, B.F.A. (Ohio University); Theatre

Jonathan Wheeler Putnam, Columbus; B.A.; Theatre

Monique Eva Sacay, Brooklyn, NY; B.F.A. (Brooklyn College); Theatre

Joan Marie St. Germain, Kingstown, RI; B.A. (Marquette University); Theatre

Thomas William Vann, Sarasota, FL; B.A. (University of Florida); Dance

Master of Health Administration

Pamela Mary Ancona, Flats Rock, MI; B.A. (Hope University); Hospital and Health Services Administration

Kathi Lynn Bishop-Mora, Columbus; B.S. (Monmouth College); Hospital and Health Services Administration

Earl Jefferson Brigham, Salt Lake City, UT; B.S. (University of Utah); Hospital and Health Services Administration

Kristin Ann Calich, Uniontown; B.S.Bus.Adm.; Hospital and Health Services Administration

Christopher Michael Colohan, Bay Village; A.B. (Miami University); Hospital and Health Services Administration

Trevor Anthony Cox, Toledo; B.A. (University of Toledo); Hospital and Health Services Administration

Candace Jan Giddings, Shaker Heights; B.A. (Denison University); Hospital and Health Services Administration

Carol Jean Holz, Sandusky; B.S. (University of Dayton); Hospital and Health Services Administration

Peyton Rebecca Howell-Koren, Charlotte, NC; B.A. (University of Illinois); Hospital and Health Services Administration

Kevin Armstrong Johnson, Ogden, UT; B.A. (Weber State College); Hospital and Health Services Administration
Donald G. Knox, Big Rapids, MI; B.A. (Michigan State University); Hospital and Health Services Administration

Valerie Ladd Loudenback, Dayton; B.S.A.H.H. Prof.; Hospital and Health Services Administration

Gail Bissonette Marsh, Dayton; B.S.A.H.H. Prof.; Hospital and Health Services Administration

Monte Todd McCoy, Parma; B.A. (Capital University); Hospital and Health Services Administration

Beth Ellen Moran, Columbus; B.A. (Miami University); Hospital and Health Services Administration

Elizabeth Ann O'Connor, Forest Hill, MD; B.S. (Wake Forest University); Hospital and Health Services Administration

Paula Ann Reilman, Akron; B.S. (Bowling Green State University); Hospital and Health Services Administration

Karen Jean Sasy, Columbus; B.S.Bus.Adm. (Bowling Green State University); Hospital and Health Services Administration

Daniel Regis Sherred, Pittsburgh, PA; B.A.S. (Southwest Texas State University); Hospital and Health Services Administration

Robert K Smith, Idaho Falls, ID; B.S. (Brigham Young University); Hospital and Health Services Administration

Ryder Edward Smith, Columbus; B.A. (Charleston College); Hospital and Health Services Administration

Diane Marlene Tomlinson, Columbus; B.S. (Bowling Green State University); Hospital and Health Services Administration

Robert Edward Tootle, Columbus; B.S.Nurs.; Hospital and Health Services Administration

Master of Labor and Human Resources

Pamela Anne Faure, Upper Arlington; B.A.; Labor and Human Resources

Mary Sue F indley, Columbus; B.S.Bus.Adm. (University of Dayton); Labor and Human Resources

Benonah Tobias Jumbo, Bonny Rivers, Nigeria; B.S., M.B.A. (Jackson State University); Labor and Human Resources

Jennifer Lynn Kern, Columbus; B.S.Bus.Adm.; Labor and Human Resources

William Francis Leinweber, Columbus; B.A. (Marshall University); Labor and Human Resources

William Thomas McHugh, Tallahassee, FL; B.S. (United States Naval Academy); M.A.; Labor and Human Resources

Patrick Edward Smylie, Columbus; B.A. (University of Akron); Labor and Human Resources

Louann Alicia Snezek, Martins Ferry; B.S.H.E., M.S.; Labor and Human Resources

Sondra Mae Sparks, Gambier; B.S.Ed.; M.A.; Labor and Human Resources

Master of Landscape Architecture

Catherine Beatrice Alington, Wellington, New Zealand; B.A. (Victoria University); Landscape Architecture

Seoseok Chang, Seoul, South Korea; B.A. (Seoul National University); Landscape Architecture

Ari Permadi, Bandung, Indonesia; B.A. (Catholic Parahyangan University); Landscape Architecture

Master of Liberal Studies

Donald Dean John Earle, Columbus; B.S. (Saint Joseph's College); Liberal Studies

William Francis Endres, Columbus; B.S.Ed., B.S.Bus.Adm.; Liberal Studies

Lucretia Ann Knapp, Bridgeport; B.A.; M.A.; Liberal Studies

Master of Music

Debra Lew Harder, Burlington, VT; B.S. (Kent State University); M.D. (Northeastern Ohio University); Music

Todd Dunham Harvey, Hillsboro; B.A. (Washington and Lee University); Music

Sohee Kim, Taegu, South Korea; B.M. (Seoul National University); Music

Meiyen Lin, Taipei, Taiwan, R.O.C.; B.A. (Chinese Culture University); Music

Michael Todd Schonauer, Millersburg; B.M. (Capital University); Music

Master of Public Administration

Ronald Christopher Bleiholder, Philadelphia, PA; B.A. (Rutgers University); Public Policy and Management

Cindy Carla Hampel, Greenwood, NY; B.S. (Rochester Institute of Technology); Public Policy and Management

Seow-Ling Kim, Singapore, Singapore; B.S.Bus.Adm.; Public Policy and Management

Master of Science

Janis Faye Anthes, Springfield; B.S. (University of Wisconsin); Allied Medical Professions

Richard Douglas Archer, Jacksonville, FL; B.A. (Wake Forest University); D.D.S. (University of Maryland); Dentistry

Kayvan Ardalan, Akron; B.S.M.E. (University of Akron); Aeronautical and Astronautical Engineering

Richard Lee Arends, Pickerington; B.S. (Rutgers University); Electrical Engineering

Mark Arj Azadpour, Columbus; B.S.E.E.; Electrical Engineering

Davender Babbar, Faridabad, India; B.Tech. (Banaras Hindu University); Computer and Information Science

Lisa M. Badowski, Broadview Heights; B.A. (Miami University); O.D.; Physiological Optics

Wendy Larson Luedke, Milwaukee, WI; B.S. (University of Wisconsin); Public Policy and Management

Barbara Rae Mace, Worthington; B.A. (Kent State University); J.D. (Capital University); Public Policy and Management

Patricia Carolyn Martin, Columbus; B.A.; Public Policy and Management

Leslee Ann McCormick, New Concord; B.A. (Miami University); Public Policy and Management

Dana Leigh McDaniel, Middletown; B.A. (Miami University); Public Policy and Management

Maria Louise Mone, Columbus; B.A. (University of Notre Dame); J.D.; Public Policy and Management

Stephanie Treisch Mylan, Poland, B.A. (Miami University); Public Policy and Management

Richard Pow, Bay Village; B.A. (Muskingum College); Public Policy and Management

William Thomas Ryan, Jr., Cleveland; B.B.A. (Cleveland State University); Public Policy and Management

Richard Martin Schneiderman, Akron; B.S. (University of Akron); Public Policy and Management

Jody Lynn Shultz, Maumee; B.A.; Public Policy and Management

Andrew Baker Willison, Columbus; B.A. (College of William and Mary); Public Policy and Management

Christopher Andrew Wrobleski, Highland Heights; B.S.; Public Policy and Management

Master of Science
Barbara Ann Russell Harbin, Portsmouth; B.S.N. (Northern Illinois University); Nursing

Don Robert Harrington, Apple Creek; B.S.Pharm.; (University of Toledo); Pharmacy

Pamela Ann Hartford, Wheeling, IL; B.A. (College of Saint Benedict); Statistics

Vasiliki Hartonas, Thessaloniki, Greece; B.S.A.E.; Aeronautical and Astronautical Engineering

Robert Justin Haschart, St. Bernard; B.S.C.I.S.; Civil Engineering

Richard Dale Hayes, Tiffin; B.S. (Alma College); Agricultural Education

Kenneth Scott Henderson, Mt. Vernon; B.S. (Alma College); Geology and Mineralogy

Christopher Becker Hersman, Cincinnati; B.S.E.E.; Electrical Engineering

Ingrid Helena Hoffmann, Ithaca, NY; B.A. (Cornell University); Nursing

David Eugene Holcomb, Aurora, CO; B.S. (Colorado State University); Nuclear Engineering

Kevin Dewayne Hosmer, Campbell, NY; B.S., M.S. (Alfred University); Ceramic Engineering

Patricia Ann Howard, Columbus; B.S.Nurs.; Nursing

Yunfu Hu, Beijing, P.R.C.; B.S. (Central China Agricultural University); Animal Science

Shr·Lin Hung, Ping Tung, Taiwan, R.O.C.; B.S. (National Chiao Tung University); Civil Engineering

Rodney Lee Irwin, Toledo; B.S.; Physiology

Charles Anthony Janini, Akron; B.S.M.; A. S. Statistics

Sandra Gall Jenkins, Zanesville; B.S.N. (Otterbein College); Nursing

Mirí Ann Kahng, Columbus; B.S. (University of Houston); Computer and Information Science

Hui-Jung Carol Kao, Taipei, Taiwan, R.O.C.; B.S. (Chinese Culture University); Chemistry

Robert Adam Katz, Johannesberg, Union of South Africa; B.S.; B.D.S. (University of the Witwatersrand); M.A.; Dentistry

Robert Alistair Killam, Augusta, GA; B.S. (Farmun University); Mathematics

Mark Richard Kinkelara, Dublin; B.S.Ch.E.; Chemical Engineering

Matthew David Kleinhenz, St. Marys; B.A. (Kent State University); Horticulture

Frank James Kobak, Columbus; B.S. (Kent State University); Chemistry

Gregory Frank Koltun, Columbus; B.S.; Civil Engineering

Carol Ann Krantz, Glen Rock, NJ; B.S. (Roger Williams College); Natural Resources

Laura Sue Krescheck, Springfield; B.S.Nurs.; Nursing

M. Krishnamurthy, Madras, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

Madhav Narayan Kulkarni, Bombay, India; B.Tech. (Indian Institute of Technology); Geodetic Science and Surveying

Wen-Fu Lai, Taipei, Taiwan, R.O.C.; B.D.S. (Taipei Medical College); Dentistry

Wen-Kuei Lai, Chia-I, Taiwan, R.O.C.; B.S., M.S. (National Cheng-Kung University); Metallurgical Engineering

Dong-Soon Lee, Seoul, South Korea; Bachelor's (Yonsei University); M.S.; Civil Engineering

Shiow-Jen Lee, Pintung, Taiwan, R.O.C.; B.S., M.S. (Tamkang University); Statistics

Craig Alan Leffel, New Knoxville; B.S.W.E.; Welding Engineering

Stephanie Joyce Leibfritz, Mansfield; B.S. (Bowling Green State University); Nursing

Sergio Luis Leardone, Rio Cuarto, Argentina; Diploma (National University of Cordoba); Plant Pathology

Benita Edrena Lewis, Silver Spring, MD; B.S. (North Carolina Agricultural and Technical State University); Human Ecology

Guodong Li, Manzhouli, P.R.C.; B.S.C.E. (Harbin Institute of Technology); Mathematics

Wen-Hsiung Li, Taipei, Taiwan, R.O.C.; B.S. (National Cheng-Kung University); Civil Engineering

Chia-Liang Lin, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Electrical Engineering

Eugene Yv·Yen Liu, Worthington; B.S.M.E.; Mechanical Engineering

Chin Wah Low, Kuala Lumpur, Malaysia; B.S.C.E.; Civil Engineering

Carrie Jaxin Lu, Guangzhou, P.R.C.; M.B. (Jinan University); Pathology

Wen-Li Lu, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); Allied Medical Professions

Narong Lumpipanakanda, Bangkok, Thailand; B.S., D.D.S. (Chulalongkorn University); Dentistry

Machfudh, Bogor, Indonesia; Sarjana (Bogor Agricultural University); Natural Resources

Judith Lynne Mason Griffey, Conneaut; B.S.Nurs.; Nursing

Jonathan Ray Mays, Cincinnati; B.A. (Mount Vernon Nazarene College); Preventive Medicine

Michael David McNinch, North Tonawanda, NY; B.S.W.E.; Welding Engineering

James McDonald, Deptford, NJ; B.S. (University of Delaware); Geology and Mineralogy

Michelle Vyette McKissick, Columbus, B.S.Nurs.; Nursing

Robert Dugald McMichael, Pulman, WA; B.S. (Pacific Lutheran University); Physics

Scott McMillan, Elkhon, MD; B.S. (Clemson University); Electrical Engineering

Boazza Mchichou, Kenitra, Morocco; Bachelor's (National School of Agriculture Meknes); Agricultural Economics and Rural Sociology

Angela Gail Meadows, Coshocton; B.S.N. (Marshall University); Nursing

Gerald Eugene Mellott, Garrett, IN; B.S. (Bellefontaine College); Natural Science

Patricia Leonard Meyer, Liberty Center; B.S.N. (Mary Manse College); Nursing

Christopher Anheuser Miller, Alhambra, MD; B.A. (Earlham College); Geology and Mineralogy

Jackie Lynne Miller, Columbus; B.S.Nurs.; Nursing

Darrell Paul Minor, Uhrichsville; B.S.Ed.; Mathematics

Abbas Mokhtarzadeh, Tehran, Iran; B.S., M.S. (University of Michigan); Electrical Engineering

Bridget Anne Moore, Westlake; B.S. (Miami University); Industrial and Systems Engineering

Margaret Louise Mueller, Dayton; B.S.Nurs.; Nursing

Jennifer Denise Murray, Duncanville, TX; B.S. (Texas Agricultural and Mechanical University); Biomedical Engineering

Shirin Nazma, Dhaka, Bangladesh; B.S., M.S. (Dhaka University); Agricultural Economics and Rural Sociology

Viet-Anh Van Nguyen, Louisville, KY; B.S.E.E. (Purdue University); Computer and Information Science
Sririr Oguz, Sinop, Turkey; B.S. (Istanbul Technical University); Aeronautical and Astronautical Engineering

Eric John Olson, Columbus, B.S.; Mathematics

Chandramouli Padmanabhan, Madras, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

John David Palme, Philadelphia, PA; B.A. (College of Wooster); Mathematics

Tae Yoon Park, Seoul, South Korea; B.S. (Yonsei University); M.S. (University of Georgia); Zoology

Bohdan Michael Paselsky, Parma; B.S.E.E.; Computer and Information Science

Stephanie M. Peck, Cuyahoga Falls, B.A. (University of Akron); Food Science and Nutrition

Chun-Yang Peng, Tungshih, Taiwan, R.O.C.; B.S. (National Cheng-chi University); Statistics

Hsuan Peng, Taipei, Taiwan, R.O.C.; B.S.M.E. (National Taiwan University); Mechanical Engineering

Laura Chinglan Peng, Columbus; B.S.; B.A.; Food Science and Nutrition

Jeffrey Alan Peterson, Cincinnati; B.S.I.E.; Industrial and Systems Engineering

Joyce Ellen Peterson, West Worthington; B.S.N. (Franklin University); Nursing

Robert William Pfeifer, Columbus; B.S.Phar.; Pharmacy

Julianne Marie Piskura, North Royalton; B.S. (Cleveland State University); Geology and Mineralogy

Tanya Sofia Pittel, Columbus; B.S.C.I.S.; Computer and Information Science

Madge Eileen Player, Dublin; B.S. (University of Delaware); Food Science and Nutrition

Judith Lynne Portwood, Columbus; B.S.Phar.; Pharmacy

Michel Joseph Denis Provencher, Ottawa, Canada; B.Eng. (Royal Military College of Canada); Welding Engineering

Jorge Ivan Puchacielga, Loja, Ecuador; M.E. (Escuela Politecnica del Litoral); Welding Engineering

Srinivas Raghavan, Madras, India; M.S. (Birla Institute of Technology and Science); Computer and Information Science

Linda Sue Rausch, Columbus; B.S.Food Tech.; Food Science and Nutrition

P. V. Ravindra, Hyderabad. Andhra Pradesh, India; B.Tech. (Indian Institute of Technology); Mechanical Engineering

Bart Wayne Ray, Carrollton; B.S.Agr.E.; Agricultural Engineering

Najam Ur Rehman, Karachi, Pakistan; B.S. (University of Oklahoma); Electrical Engineering

Edward Thomas Reischman, Wooster; B.S.; Mathematics

David Eyring Rieske, Ostrander; B.S. (Brigham Young University); Geology and Mineralogy

Donald Joseph Rogier, Rising Sun; B.S. (Kent State University); Chemistry

Robert Edward Rosenblum, Columbus; B.S. (University of Illinois at Urbana); Computer and Information Science

Dewndu Falconer Ross III, Utica; B.S. (Indiana University); Biophysics

Aron Jay Safer, Columbus; B.A. (Yeshiva University); D.D.S. (Howard University); Dentistry

Brenda Alice Salmon, Torawaanda, NY; B.S.; Environmental Biology

Edward Allen Sarkel, Ashland; B.S. (Ashland College); Computer and Information Science

Charles Wayne Schalk, Avon; B.S.Agr.E.; Agricultural Engineering

Jean Ann Scholz, Columbus; B.S.N. (Ohio Wesleyan University); Nursing

Samuel William Schwartz, Battle Creek, MI; B.A. (University of Chicago); Physics

Edythe Mae Seehafer, Columbus; Natural Resources

Janice E. Semler, Springfield; B.S.N. (Wright State University); Nursing

Yongwie Seo, Chun-Nam, South Korea; B.S. (Korea University); Engineering Mechanics

Julio Cezar Silva, Parana, Brazil; B.S. (Federal University of Parana); Chemical Engineering

Amy Jo Snook, West Jefferson; B.A. (Cedarville College); Molecular Genetics

Rosa Marie Snyder, Columbus; B.S. (Texas Woman's University); Industrial and Systems Engineering

Michael Lewis Spradling, Worthington; B.S.A.A.E.; Mechanical Engineering

Katherine Jennifer Stanton, Mercer Island, WA; B.S.M.E. (Washington State University); Mechanical Engineering

Paul Charles Steck, Williamsville, NY; B.A. (State University of New York at Buffalo); Geology and Mineralogy

David Mandel Stinson, Hamilton; B.S. (Wilmingtom College); Agricultural Education

Charles Brian Tanner, Columbus; B.S. (University of Notre Dame); Engineering Mechanics

Vera Reynolds Tedrick, Worthington; B.S.Nurs.; Nursing

Julie Ann Thomas, New Carlisle; B.S.; Human Ecology

Pamela Thomas, Columbus, B.A. (Capital University); Agricultural Economics and Rural Sociology

Donna Jo Tierney, Columbus; B.S.N. (Capital University); Nursing

Kathryn Thornton Tinklenberg, Lubbock, TX; B.S.Nurs.; Nursing

Ellen Anne Tirpak, Cleveland; B.S.Phar. (Ohio Northern University); Pharmacy

Paul Liangqi Tjoa, Bandung, Indonesia; B.S. (Maranatha Christian University); Computer and Information Science

Sharon E. Tomaszewski, North Tonawanda, NY; B.S. (State University of New York at Buffalo); Chemistry

Lisandro Trevino, Weslaco, TX; B.S. (Universidad de Nuevo Leon); M.S. (Texas Arts and Industry University); Chemical Engineering

Ngoc Hong Trinh, Fort Smith, AR; B.S.E.E. (University of Tulsa); Electrical Engineering

Roberto Ulloa-Vaca, Quito, Ecuador; B.S. (Catholic University of Ecuador); Natural Resources

Stuart Ferguson Van Weele, Cincinnati; B.S.Met.E.; Metallurgical Engineering

Alberto Enrique Villasmil, Maracaibo, Venezuela; M.D. (Universidad Del Zulia); Pathology

Marjorie Ann Vogt, Delaware; B.S.N. (Carlow College); Nursing

Zhi Wang, Beijing, P.R.C.; M.S. (University of Hawaii); Agricultural Economics and Rural Sociology

Jan Vinset Waters, Columbus; B.S.N. (Michigan State University); Human Ecology

Vicky Lynn Weddington, Dayton; B.S.E. (Wright State University); Metallurgical Engineering

Rose Kay Wetherill, Columbus; B.S. (Ohio University); Nursing

Bernard Eamonn Wilkinson, Columbus; B.S. (Brigham Young University); Chemical Engineering

Linda Lee Williams, Marion; B.S. (Franklin University); Nursing

Zaw Win, Yankon, Burma; B.Ag. (Institute of Agriculture); Agronomy

Linda Elizabeth Wooddell, Portsmouth; B.S.N. (University of Alabama); M.Ed. (Ohio University); Nursing
Julie Ann Parker, Columbus; B.A. (Indiana University); Social Work

Robert Glenn Parr, Cedarville; B.R.E. (Grand Rapids Baptist College); M.A. (Michigan State University); Ph.D.; Social Work

Barbara A. Pavichevich, Columbus; B.S.Soc.Work; Social Work

Sally Pedon, Columbus; B.A. (Ohio Wesleyan University); M.S. (University of Dayton); Social Work

Kimberly Dianne Plank, Mansfield; A.B. (Ohio University); Social Work

JoAnne Carol Powell, Worthington; B.A. (Taylor University); Social Work

Linda M. Powers, Canfield; B.A. (Wittenberg University); Social Work

Robert Joseph Prines, Euclid; A.A.; B.S.Soc.Work; Social Work

Denise Ramos Laboy, Ponce, PR; B.A. (Catholic University of Puerto Rico); Social Work

Mind K. Ramsey, Canton; B.A.S.W. (Malone College); Social Work

Barbara Louise Rahbun, Columbus; B.S.S.W. (Ashland University); Social Work

Pamela Lynn Reeder, West Jefferson; Bachelor's (Tiffin University); Social Work

Kristine Marie Richardson, Columbus; B.A. (Miami University); Social Work

Brenda Marie Ridgeway, Cleveland; B.S.Soc.Work; Social Work

Melinda Monahan Ridgeway, Gallipolis; B.A. (Ohio University); Social Work

Lisa Beth Robins, Bexley; B.A. (University of Michigan); Social Work

Melinda Yeager Rohrer, Columbus; B.S. (Manchester College); Social Work

LuAnne Root, Mansfield; B.A. (Wittenberg University); Social Work

James H. Rosmarin, Columbus; B.A.; Social Work

Theresa Marie Savely, Columbus; B.A.; Social Work

Warren Ray Schneider, Columbus; B.A.; Social Work

Alesia Danielle Schomaker, Van Wert; B.S. (Defiance College); Social Work

Michael Edward Sexton, Cincinnati; B.S.S.W.; Social Work

Hong-Kwan Shin, Gyonggi, North Korea; B.A. (Seoul National University); Social Work

Martha Teresa Shipley, Columbus; B.S.Ed. (Ohio University); Social Work

Michelle Shoaf, Mansfield; B.S.Soc.Wel.; Social Work

Renee Christine Shonk, Columbus; B.S.Soc.Work; Social Work

Lisa Denise Skipper, Columbus; B.A. (Bowling Green State University); Social Work

Beth Marie Sliwowski, Gahanna; B.A. (Boston University); Social Work

Suzanne Elizabeth Smith, Grove City; B.S.W. (University of Dayton); Social Work

Lewis Roger Stewart, Jr., Chillicothe; B.S.Soc.Wel.; Social Work

Karen Sue Storts, Columbus; B.S.Soc.Work; Social Work

Linda Sue Teets, Columbus; B.S.Soc.Work; Social Work

Anita Mae Thompson, Chillicovery; B.A. (Ohio University); Social Work

Kimberly Renee Toler, Zanesville; B.S.Soc.Work; Social Work

Robin Kay Troyer, Millersburg; B.A. (University of Akron); Social Work

Michelle Vega, Baton Rouge, LA; B.A. (Louisiana State University); Social Work

Elaine Michele Vogel, Worthington; B.S.Soc.Work; Social Work

Daphne Elizabeth Wade, Columbus; B.A.; Social Work

Colleen Kay Watson, Columbus; B.A.S.W. (Taylor University); Social Work

Yvette Sarah Weaver, Columbus; B.S.Bus.Adm.; Social Work

Gina Lee Westfall, Defiance; B.S.W. (Defiance College); Social Work

Ronald Matthew White, Columbus; B.S.Soc.Wel.; Social Work

Jean Ann Whitworth, Alton, IL; B.A. (Western Illinois University); Social Work

Alberta Monica Wilkes, Columbus; B.S.Ed. (Kent State University); M.A.; Social Work

Angela Louise Williams, Cincinnati; B.A. (Marian College); Social Work

Kim Michelle Williams, Hyattsville, MD; B.S. (Morgan State University); Social Work

Judy Meyer Wilson, Norwalk; B.A. (University of Toledo); Social Work

Laura Ann Winslow, North Olmsted; B.A. (Cleveland State University); Social Work

Pamela Marie Woods, Cincinnati; B.A.; Social Work

Catherine Faye Young, Columbus; B.A. (Wright State University); Social Work

Certificate of Specialist in Russian Area Studies

Jeohon Park, Seoul, South Korea; B.A. (Seoul National University); M.A.; Slavic and East European Studies
Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

Dean: Donald Harris

Bachelor of Arts

Andrea Lee Curry, Westen
Frnk Douglas Delienzo, Steubenville
Ann Kerr Henderson, Mentor
Stephen Leo Spinner, Columbus
Susan Elaine Hamilton, Columbus
C. Todd Brown, Columbus
Kristi Noel Cooke, Marion
Michael William Dickas, Westerville
Michele Elleen Dowling, Gahanna
Curtis Morrison Goldstein, Columbus
Rebecca Eve Gould, Columbus
Sueanne Hamilton, Columbus
Thomas George Harned, New Haven, CT
Dianna Danielle Kashner, Grove City
Jeffrey Michael Lepone, Youngstown
Teresa Lynn Lloyd, Columbus
Mika Nagumo, Niigata, Japan
Tracy L. Rhodes, Columbus
James Reginald Rodman, Forest
Daniel Nathan Root, Stow
Eri Natsuki, Tokyo, Japan
Perry David Ryoo, Carmicha, MA
Timothy Mark Sanders, Columbus
Evelyn Gwendolyn Adams Scott, Van Wert
Rhonda Myler Shappert, Seneca, SD

Bachelor of Art Education

Shari L. Savage, Upper Arlington
Donna Marie Wieber, Sandusky

Bachelor of Fine Arts

Joseph Michael Albright, Owosso, MI
Julia Ann Almendinger, Marion
Joelle B. Arp, Amherst
Mark Alan Beers, Ashville

Bachelor of Music

Ellen Myers Bargar, Holland
Elaine Margaret Couch, Pittsburg, TX
Kelly A. Green, Kettering
Derek Lowell Harrah, Upper Sandusky
Yun Ling Hsu, Taiwan, ROC
Douglas Patrick Lawler, New Carlisle
Bryan A. Pardo, Columbus
John Christopher Riegel, Oxford
Stephanie Lynn Shull, Ada
Gary Lee Tigner II, Columbus

Bachelor of Art Education

David Edwin Barker, Columbus
Cynthia Ellen Buckingham, Columbus
Eugene Olin Castle, Columbus
Michael Anthony DeLuca, Lima
Mark William Dudrow, Westerville
Cheryl Debra Gartenlaub, Fairfield
Tracy Sue Hall, Grove City
Lauren Leigh Gauthier, Newark
Doreen Marie Maurisi, Reynoldsburg
Stephanie Caryl Shiff, Toledo
Lisa Ann Weishoff, Worthington
Julia Anne Woodrow, Columbus

Bachelor of Music Education

Ellen Myers Bargar, Holland
Kerry D. Irvin, Columbus
Rebecca Eve Gould, Columbus

Bachelor of Arts

David Alfred Richardson, Montgomery
Bachelor of Science

Stasia Ann Antalis, Shadyside
Patricia Carlene Apel, Napoleon
Mitchell Paul Barhorst, Columbus
Elaine A. Barrett, Cincinnati
David Scott Bond, Kennesaw, GA
Darrin Louis Boss, Chesterland
Catherine Ann Bremer, Pittsburgh, PA
Cindy Lee Buck, Ashtabula
Brian Michael Burkhart, Belpre
Brian Donald Burrell, Cincinnati
Betsy Ann Carleton, Delaware
Bruce Arthur Carlson, Brecksville
Carol Jeanne Carson, Akron
Anthony Olin Clark, North Canton
Jeffrey Alan Clem, Newark
Kimberly Sue Criehfeld, Mayfield Heights
Bradley Hall Crombie, Geneva
Robert M. Curran, Concord Township
Renée Dawn Dellarose, Concord
Heidi Lee Damrianski, Orrville
Michael Neis Eileman, Bay Village
Lisa Marie Esterle, Wooster
Jennifer Marie Feldmann, West Chester
Stephen Joseph Ferency, Solon
Diane Lynn Fletcher, Massillon
Douglas Robert Forrest, Columbus
Stephanie Marie Garrison, Cardington
Anne Elizabeth Gasior, Findlay
Anna Marie Gerdau, Shadyside
Andres Richard Giammarro, Solon
Joseph Michael Ginty, Brecksville
Bruce Arthur Carlson, Brecksville
Darrin Louis Boss, Chesterland
Mitchell
Brian Donald Burrell, Cincinnati
Anna Marie Gerdau, Shadyside
Anne Elizabeth Gasior, Findlay
Anthony
Samantha Irene Morefield, Lancaster
Teresa Ann Hoffman, Waverly
Jeffrey David Neidhart, Columbus
Jeffrey
Deborah Jean Long, Marysville
Heidi Lee Dianiska, Brilliant
Lori Slade Jackson, Columbus
David Lawrence Kimball, Barberton
Patrick
Manuel Lugo, Jr., Stryker
Amy Susan Melick, Roseville
Brilliant
David Lawrence Kimball, Barberton
Amy Michelle Ryder, Napoleon
Dawn Christine Lahman, New Philadelphia
Robert Allen Large, Thornville
Daniel Edward Long, Columbus
Deborah Jean Long, Marysville
Maureen Longstreet, Strongsville
Manuel Lugo, Jr., Strayer
Patricia J. Lujan, Fairlawn
Adel W. Mansour, Columbus
Jeffrey J. Matre, Kettering
Clifford Bautista Maxim, Cambridge
Patrick Kelley McGiff, Bellefontaine
Michael Scott McHenry, Milford
Amy Susan Melick, Roseville
Robert Raymond Michel, Euclid
Thomas Scott Miller, Wellington
Samatha Irene Morefield, Lancaster
Jeffrey David Neidhart, Columbus
Joe Thanh Nguyen, Columbus
Anna Maria Nolan, Cincinnati
Lyle Terrance Olson, Mansfield
Anthony James Orr, Columbus
Kathryn E. Osborn, Washington, DC
Julie Lynn Owens, Canton
Michael Joseph Page, Newton Falls
Laura Eileen PaI, Ashtabula
Rashmi Ishwar Patel, Columbus
Jessica Lynn Pollock, Columbus
David Joel Porter, Oak Harbor
Robert Leonard Prout, Blanchester
Michelle Kathleen Putz, Worthington
Frank George Radzi, Chagrin Falls
David Louis Rausch, Pickerington
Jaclyn Laura Reid, Columbus
Michelle Renee Roberts, Elyria
Christine Marie Rousseau, Newark
Mena Sangeta Sahni, Solon
Todd Eugene Sanders, Delphos
Morris William Schaner, Canton
Angela Marie Schings, Toledo
William Andrew Schmalhofer, Plainfield Heights
Laura Jeanne Shirley, Bay Village
Svetlana Sonia Shihrom, Cincinnati
Bernadette Yvonne Smith, Upper Sandusky
Julie Ann Smith, Hudson
Kelsey Anne Steinbugl Raver, Columbus
Jaib Hasan Suleman, West Bank, Israel
Otto Charles Supec, Jr., Geneva
Elaine Marie Suszynska, Struthers
Eileen Marie Swiernik, Richmond Heights
Megan Scully Thomas, Ft. WAYNE, IN
Kiran Tippireddi, Gahanna
Paula Marie Tokar, Tallmadge
Marie Rambani Vasquez M., Rio Piedras, PR
Deny Despina Vounouskis, Steubenville
Stuart Allan Wahl, Massillon
Douglas Keith Warner, Columbus
Thomas Andrew Waters, Rocky River
Kara Lynn Wernke, Worthington
Samuel Thomas Whitmer, Troy
Christopher William Wilson, St. Mary's Margery Frances Wood, Columbus
PamelaJean Young, Powell
Deborah Ellen Zimmerman, North Canton

Bachelor of Arts

Gregory Scott Abbott, Pickerington
Nanette Rea Adams, Columbus
Audrey Lynn Alexander, Columbus
Kendall Maria Allen, Akron
Joseph Louis Althiery, Columbus
Dwight Curry Anderson, Columbus
Kelli Anderson, Madison
Scott Maurice Anderson, Columbus
Alisha Ann Arnoldo, Columbus
Mark Eugene Arnold, Columbus
M. Jane Ashby, Columbus
Carol Leigh Barrett, Bridgeport
Nancy Ann Baumgarten, Pepper Pike
Belinda S. Beires, Columbus
Amy Jo Berks, Dayton
David L. Bernstein, Columbus
Tamarie Christine Bissell, Columbus
Loretta Christina Booth, Wintersville
Nancy Louise Breen, Cincinnati
David Ian Brody, Columbus
Ann Elizabeth Brown, Centerville
Garry Cameron Brown, Washington Court House
Kerry Todd Brown, Fairfield
Stephanie Carol Burley, Cuyahoga Falls
Leslie Jeanne Burns, Columbus
Care Ferrero Calendine, Columbus
Courtney Anne Carroll, Columbus
Susan Michelle Carroll, Upper Arlington
Constance Lynn Clyburn, Columbus
Christopher Sean Conroy, Cincinnati
Gretchen Anna Cook, Springfield
Maureen Ann Cooney, Cleveland
Annmarie Corrigan, Cleveland
Joseph C. Daniels, Reynoldsburg
Mary Coody Davison, Canton
Michael P. Deagle, Worthington
January Elizabeth Dean, Dayton
Cynthia June Decalmo, Warren
Michele Elena Deter, Columbus
Theodore Brant Dickman, Zanesville
Laurie Bergman Diehl, Worthington
Rebecca Sue Dierker, Columbus
Troy Lyn Dotson, Columbus
Aliya Marie Dowd, Columbus
Steven Michael Doyle, Seminole, FL
Darcy Ann Dreher, Powell
Shila Lauren Dunsker, Cincinnati
Scott Allen Dybec, Columbus
Kari Anne Erelwein, Springfield
Martha Mary Ernst, Farmerville
Hope Alane Fettman, Columbus
Kim Ingrid Finlayson, Salisbury, MD
Amy Elisabeth Fisher, Howard
Kelli Faith Fioraro, Lyndhurst
Owen Christopher Frank, Columbus
Clare Ripley Fried, Portsmouth
David Michael Gallatin, Dayton
James Elton Gaynor, Medina
Beth A. Gemayel, Columbus
Susan Toennies Gephart, Cincinnati
Amy Kathleen Gibson, Columbus
Pamela A. Gilbert, Westerville
Heather Jan Gillman, Stair, FL
Allison Paige Goff, Columbus
Scott Kendall Gordon, Worthington
Kathleen Elizabeth Green, Maumee
Myung Sung Han, Columbus
Kif Ziba Haque, Columbus
Timothy Michael Harner, Wheelersburg
William Eric Hartman, Columbus
Jennifer Lynn Haskins, Columbus
Sharon Elizabeth Heinrich, Mentor
Christian Hale Heintzelman, Canfield
Laura Ann Hillstrom, Bexley
David Scott Hogsette, Dayton
Matthew Rees Hunley, Bellmore
Christine Marie Irving, Cleveland

College of Humanities

Dean: C. Michael Riley

1105
James Drew Johnson, Sylvania
Kathleen Anne Johnson, Galena
Heather Ann Kalman, Columbus
Celia Cunningham Kavanaugh, Columbus
Mary Chi-Whi Kim, Shelby
Stacy Seitchfield Klevay, Akron
Linda Lee Koci, Cincinnati
Joel Forrest Kohler, Westerville
Thomas Adam Kolaja, Morgantown, WV
Tevadora Nicole Kostia, Elyria
Philip Charles Kozell, Highland Heights
Nikki Anne Kries, Unipolis
Kristine Noel Kunkle, Stahlsb, PA
Margorie Robin Landever, Shaker Heights
Melissa Charmaine Leeth, Washington Court House
Mary Wales Leslie, Lakewood
Jeffrey Kent Lott, Columbus
Karen Marie Lynch, Cincinnati
Andrew Nelson Madison, Delaware
Robert Alan Maggs, Youngstown
Peter Emmanuel Makari, Columbus
Krystina Ela Maki, Whitehall
Matthew Louis Marks, Sylvania
Steven Paul Marks, Madison
Scott Lincoln Marrah, Worthington
Michael Garrett Martin, Toledo
Richard Joseph Martin, Wintersville
Melissa Marie Massie, Lancaster
Dennis Robert McClure, Grove City
Kathleen M. McNeil, Columbus
Stephani Ann McNemar, Columbus
Joel Scott McPherson, Perrysburg
Julie Marie Meighen, Akron
Michael Joseph Melvin III, Richfield
Margaret Mary Miller, Columbus
Markos Samuel Miller, Dayton
Matthew Scott Miller, Columbus
Todd David Miller, Ashland
Vicki Lynn Mills, Columbus
Elizabeth Anton Milly, Worthington
Laura Jean Mobley, Columbus
Jessica Lynn Montgomery, Gallipolis
Adam Daniel Moore, London
Juliette Angela Moore, Dayton
Sally Jane Moore, Columbus
Manderlee Gibson Moriz, Columbus
Kevin Dwayne Morris, Galloway
Karrie Michelle Munshawer, Columbus
Jennifer Ann Murphy, Euclid
Sean Edgar Murphy, Zanesville
Roy Lee Nalazek, Cleveland
Julie A. Nault, Wooster
Theresa Newman, Grove City
Susan Marie Oldham, Toledo
Bonnie Kay Owens, Sharonville
Andrea Maerie Page, Columbus
Steve Anthony Parlin, Marietta
Paul Douglas Pasholk, Columbus
Kenneth William Penny, Magnetic Springs
Julie Lynne Porter, New Albany
Tommy Ray Porter, Columbus
Michael Joseph Pottebaum, Maineville
Mark Andrew Pouya, Columbus
Wendy S. Pyszak, Mentor
Jennifer Lyn Pugh, Columbus
Beth Ann Pullen, Akron
James Michael Purpur, Columbus
Mark Edward Raicevich, Euclid
Paul Thomas Ratzjakz, Medina
Shannon Alonna Reese, Columbus
John Stephen Regas, Columbus
Laura Janine Reiss, Upper Arlington
Alexander Kentel, Columbus
Deeann Elizabeth Rigby, Columbus
Christina Suzanne Ritchey, Galena
Eric Joseph Robbins, Columbus
Anjeanette C. Rose, West Carrollton
Miles Eugene Russell, Hillibuck
Joseph David Segan, Greenwich
Arthur Phillip Sagone, Columbus
Ellen Beth Saunders, Oregon
Keith Stephen Schneider, Bellefontaine
James Michael Schutt, North Hampton
Frederick Anthony Schultz, Columbus
Renée Marie Schutlz, Whippany, NJ
Lisa Jill Schwartz, Pepper Pike
Mary A.L. Seeley, Columbus
Fleur Pfeiffer Sells, Columbus
Maria Dawn Sedinak, Boardman
Michael Roy Shreffler, Canton
Catherine Anne Simon, Canton
Jon Snyder, Loudenvale
Kenneth Vispi Soule, Columbus
Tamaro Spero, Jerusalem, Israel
Eric Joseph Staley, Powell
Michelle Ann Stambaugh, Twinsburg
Daniel J. Stewart, Westerville
Sandra Kay Stinehart, Fostoria
Laura Ann Stubblefield, Centererville
Lori Ann Stratford, Steubenville
Joseph Dean Swazy, Greenville, NC
Timothy Joseph Sweeney, Cincinnati
Maria Gabrielle Swora, Columbus
Robert Lee Tackett, Upper Sandusky
Keigo Taniguchi, Miyazaki, Japan
Timothy Charles Thompson, Reynoldsburg
Penelope Ann Tinker, Euclid
Teresa Lynn Trautmann, Mansfield
Margaret Mary Van Uum, Cleveland
Frederick William Voigtmann, Columbus
Alexender Michael Vonotos, Columbus
Tracy Anne Warren, Newark
Alison Anne Watkins, Kenton
Thomas Fritzrich Wei, Columbus
Jill Patricia Weihsheimer, Columbus
Laura Elizabeth Wenzkat, Medina
Jennifer Lynn Wilson, Medina
Linda Ellen Wilson, Columbus
Rachel Tracy Wimberly, Maumee
Sanan Janice Wright, Cleveland
Yasuco Yamamoto, Kure, Hiroshima, Japan
Richard Allen Yoks, Jr., Macedonia
Terri R. Ziegler, Columbus
Laurie Ann Zimmerman, Mentor
Julia Kathryn Zinn, Columbus
Dawn Marie Zobel, Cincinnati
College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

Joseph Mary Beyer, Dublin
William Cletus Bibbey, Columbus
Jung-Sun Cha, Columbus
Christine Chen, Medina
Susan Ann Ciarch, Delaware
Christine Cotton, Cleveland
Sarah Elizabeth Driscoll, Worthington
Kevin Carlyle Hall, Columbus
Jennifer Ye W. Jackson, Columbus
Julie Lauren Maybruck, Columbus
Amee Sue Meyer, Sandusky
Kavin J. Moody, Columbus
Michelle Ann Murphy, Hebron
Ketan Hiralal Patel, Dublin
Patrick David Pauken, Columbus
Erich Jürgen Schwartz, Columbus
Brian Allan Steel, New Washington
James R. Snyder, Columbus
Christine Marie Szczurek, Southtown
Craig Richard Tuokkola, Bucyrus
David Elliott Winner, Celina

Bachelor of Science

Woo Young Ahn, Seoul, South Korea
Charles Wayne Ash, Delaware
Richard Owen Astle, Woodville
Michael Allen Baker, Greenwood, DE
John Reeder Barg, Delawar
Richard Everett Berry, Columbus
Michael Charles Biewer, Findlay
Julie Elaine Biticker, Centerville
Matthew Paul Brown, Sandusky
Curtis Lee Buchheit, Steubenville
Anthony Castor, Girard
Timothy Patrick Clarke, Westlake
Jonathan Andrew Clayton, Westerville
Nancy June Conway, Upper Arlington
Larry Francis Crawford, Newark
James Laird Davenport, Canton
John Charles Deitnison, Marion
Doe Ann Dukens, Puttsburgh, PA
Daniel Dynin, Columbus
Eidel Maurice Effiong, Columbus
Peter Wade Flores, Brookville
Eric Halladay Gary, Cincinnati
Steven Andrew Ginnan, Newark
Samuel Elmier Glover, Bethel
Kirk Jeffrey Goodwin, Akron
Ann Louise Guevin, Columbus
Mark Christopher Haase, Upper Arlington
John Thomas Hermiller III, Ottawa
Ronald Lee Hickman, Columbus
Randall Joseph Hiler, New Washington
Tienchin Ho, Worthington
John Christopher Höftink, Wooster
Laura Anne Hoff, Worthington
Joseph Bruno Jenko, Euclid
Jason Herrin Jones, Lancaster
Kirk Jeffrey Goodwin, Akron
Ann Louise Guevin, Columbus
Mark Christopher Haase, Upper Arlington
John Thomas Hermiller III, Ottawa
Ronald Lee Hickman, Columbus
Randall Joseph Hiler, New Washington
Tienchin Ho, Worthington
John Christopher Höftink, Wooster
Laura Anne Hoff, Worthington
Joseph Bruno Jenko, Euclid
Jason Herrin Jones, Kettering
Mathew John Kalyuz, Parma
Matthew Henry Karrer, Worthington
Insung Jung Kim, Seoul, South Korea
Thomas Adam Kolaja, Morgantown, WV
James R. Marquez, Barberton
Charles Henry Martin, Columbus

1106
Stephen Forrest May, Mansfield
John Archie McIntyre, Cleves
Jennifer A. Nowak, Cleveland
Jithender Palamapati, Mt. Vernon
Victor James Perotti, Athens
Paul William Powers, Vandalia
Radha Prati, Beaver Creek
William Clarence Ray, Columbus
Bernard Robert Rencevic II, Columbus
Elizabeth Lynne Rhoades, Westerville
Robert E. Roach, Dayton
Jeffrey Joseph Rohde, Brunswick
Connie Marie Safreed, North Canton
Christopher William Savely, Reynoldsburg
Roger Brian Scherer, Newark
Laura Susan Schubach, Beachwood
Peter Robert Schwanke, Fergusburg
Kent Andrew Smeters, Columbus
Damian Anthony Smirloido, Cuyahoga Falls
Lori Ann Smith, Grove City
Troy A. Smith, Mansfield
John Robert Spurling, Columbus
Tamera Jean Stotts, Groveport
Carrie Kim Stroud, Athens
Christopher Howard Swartz, Marion
Toshikiko Takeuchi, Conyers, GA
Patrick Henry Toy, Marion
Heather Ann Vogus, Aurora
Deborah Ann Walton, Lancaster
Jody Keith Wilson, Sylvania
Kenneth G. Yee, Columbus
Brian Edward Zupanc, Columbus

College of Social
and Behavioral Sciences
Dean: Joan Huber

Bachelor of Arts
Molly Ann Abele, Medina
Alan Howard Abes, Canton
James Michael Adler, Fairview Park
John Joseph Albery, Brecksville
David Peter Alexander, Worthington
Darrin L. Allen, Clyde
Eric L. Allen, Columbus
Joseph Louis Alteri, Columbus
Louis Gregory Anastas, Canton
Pamela Ann Armour, Shaker Heights
Eric Jonathan Arnold, Birdsboro, PA
Laura Beth Arnold, Cleveland
Steven Leslie Ater, Columbus
Daniel Joseph Baker, Pataskala
Peggy Sue Bane, Delaware
Andrea Lynn Barnett, Columbus
Sheriff John Barnes, Columbus
Karen Louise Bartrum, Bay Village
Donald Leon Bean, Jr., Columbus
David S. Bell, Sidney
Gregory Lee Bell, Centererville
Tracy Ann Bernens, Reynoldsburg
Doris Eileen Bernhardt, Columbus
Lauri Ann Biebelhausen, Olmsted Falls
Kim Elaine Birkemeier, Delphos
Scott Benjamin Birrer, Bexley
Brian Stephen Bishop, Bucyrus
Alison Traci Blank, Columbus
Arnold Mark Blumenthal, Mount Clemens, MI
Bryan Leroy Bonnell, Columbus
Elizabeth Anne Bowden, Newark
Amy Delise Bramstedt, Edwardsville, IL
Dale Richard Braun, Pepper Pike
Charles Edward Bree, Delaware
Maria T. Brennen, Columbus
John Maurice Brion, Jr., Columbus
Allison Broom, Columbus
Brenda Kay Brown, Port Clinton
Christopher W. Brown, Columbus
David Simmond Brown, Utica, NY
Lori Lynn Brown, Columbus
Barbara Swan Browning, Columbus
Steven Arthur Brunswick, Bluffton
Kristie Lynn Buckosh, Sheffield Lake
David Mark Burgess, Columbus
Christine Lucille Burkamp, Newark
Kathleen Louise Burkholder, Lima
Rebecca Lynn Baso, Rootstown
Beth Ellen Campbell, Bucyrus
Sara Fedor Cargle, Shaker Heights
William Everett Carigan III, Cincinnati
Katherine Jean Carpenter, Pickerington
Donald A. Carroll, Avon Lake
Joseph Francis Charvat, Lakewood
Jennifer Anne Christensen, Columbus
Kathleen Anne Christner, Powell
Jack Leland Christopher, Sylvania
Craig Andrew Chuba, Columbus
Steven Charles Coffin, Port Clinton
Angela Sue Collins, Van Wert
Douglas H. Collins, Toledo
Ann-Margaret Conie, Upper Arlington
Sheila Kay Connolly, Columbus
Rodney Eugene Cook, Lima
Erin Marie Coughlin, Stow
Susan Louise Crisc, Willoughby
Elizabeth Ann Dannaher, Columbus
Donald Matthew Davet, Thompson
Kristen Jane Davidson, Worthington
Michael Dean Davis, Madison
Christian DeRuch, Cincinnati
Amy Lynn Decehake, New Knoxville
James William Desmond, Pepper Pike
Paul Thomas Devine, Columbus
Brett Arthur Diehl, Columbus
Tamae Sue Diener, Newark
Elaine Katheryn Dillard, Lancaster
Joseph W. Divar, Salinas, CA
Michael J. Donnelly, Columbus
John E. Dorsten, Dayton
Michael Timothy Dougherty, East Hanover, NJ
David Charles Douglas, Warren
Daniel Brian Doyle, Salem
Heather Daneen Drake, Boardman
Julianne Elizabeth Driscoll, Lorain
Marissa Suzanne Dungan, Columbus
Tamara Jeanne Edgy, Grove City
Brad L. Eggspuecher, Dublin
Christine Lynn Eiblick, Dayton
Thomas Bartheilns Eisele, Circleville
Erik Carman Erikson, Columbus
Jeffrey Ronald Enzler, Greensboro, NC
Jeanette Denise Ervin, Shaker Heights
Gina Isabel Espinoza, Beverly Hills, CA
Michael A. Eszen, North Canton
Stephen Edwin Eswan, Sciotoville
Amy Lynn Faulder, Jackson Center
Amy Federico, Mentor
Kirstin Lee Fennell, Warrensville, IL
Betsy Feuerwerker, Beachwood
Robert Potter Fickell III, Upper Arlington
Jose Antonio Figueroa, San Juan, PR
Marie Elizabeth Findish, Lorain
Farzin Steven Firoozian, Dublin
Steven Scott Fissell, Fulton
Rafael Floriani, Potomac, MD
Thomas Gerald Fogel, Columbus
Christina Lynn Ford, Springboro
Daniel Bruce Forman, Lyndhurst
Karlene Sue Foster, Columbus
Shelley Renee Foster, Newark
Paulette Renee Fouts, Troy
Steven Joseph Francia, Lancaster
John Paul Franco, Cleveland Heights
Dana Elizabeth Fugate, Columbus
Melaney Anne Fullerton, Columbus
John Charles Gallagher, Martins Ferry
David Michael Galvin, Dayton
Kristine Marie Galpin, Columbus
Robert Michael Garner, Bay Village
Christopher Hayes Gerome, Bay Village
Kimberly Ann Gibson, Rockfield, KY
Michelle Lynn Gilliam, Port Clinton
Catherine Ann Girves, Columbus
Jennifer Lynn Glasgow, Kettering
Matthew Philip Goers, Fairfax, VA
Melissa Brooke Gold, Canton
Julie Lynne Golub, Doylestown
Christopher Michael Gon, Pataskala
Mark Ray Goodwin, Columbus
Mark William Goodwin, Marion
Samuel Thomas Goostree, Reynoldsburg
Elizabeth Ellen Gorman, Cincinnati
Gill Gotlieb, Moreland Hills
Andrew Douglas Griffith, Columbus
Heidi Ellen Grimm, Newark
Robert Lawrence Gross, Kirtland
Patrick Joseph Grubbe, Des Plaines, IL
Dana Ellen Guterman, Columbus
Thomas Edward Gwinn, Newark
Stephen Michael Haas, Portsmouth
Nancy Lee Haufe, Maplewood, NJ
Amy Elizabeth Haigh, Perryburg
Tabitha Kaye Haines, Worthington
Zeena Denise Hampton, Springfield
Alicia Gail Harandi, Terre Haute, IN
Heather Christine Harker, Millersport
Stephen Lawrence Harris, Athens
Christina Michelle Hatter, Wadsworth
Douglas Patrick Harvey, Bexley
Andrew Joseph Hayden, Cuyahoga Falls
Antoinette Hayward, Cleveland
Beth Anne Hayworth, Columbus
Pamela Ann Hearn, Columbus
Robert Eric Heinzerling, Columbus
Karen Ann Henderson, Dayton
Carol Ann Hensley, Delaware
Susanne Stuphen Herb, Dublin
Robert Forrest Herbert, Milford
Timothy Richard Herbst, Brookville
Stephen Michael Hoersting, Mentor
Bartley Edward Herron, Columbus
Angela Marie Hickey, Westerville
Carl Vern Hickey, Urbana
Michael Paul Hirschfeld, Akron
Stephen Michael Hoestling, Upper Arlington
Christopher Denis Hogan, Stony Point, NY
Deanna Lynn Hohenstein, South Charleston
Marla Elaine Hollander, Worthington
Diane Lynne Hoover, Columbus
Charles Clough Howard, Wooster
Kerr Elizabeth Hunt, Hamilton
Diane Elizabeth Igel, Columbus
Michael Xavier Imbroscio, Belfaire
Deborah Susan Israel, Cleveland
Deborah Susan Jaffe, Pepper Pike
Mark Stephen Jerman, Columbus
Linda Kay Johnson, Denver
Deborah Monica Klein, Centerville
Mark Stephen Jerman, Columbus
Marla Elaine Hollander, Worthington
Michael Deborah Susan Israel, Cleveland
Kerri Elizabeth Hunt, Hamilton
Carolyn Diane Krarnl, Bay
Jalayne Kathryn LeMaster, Marion
John James Lapczynski, Findlay
Lorna J. Kenyon, Bridgeport
Karen Marie Kosnikowski, Brian David Krantz, Beachwood
Marsha Ann Kostelnik, Cleveland
Michael Xavier lmbroscio, Bellaire
Allen D. Kraus, Cleveland
Carla Lynn Krichbaum, Columbus
Tina Marie Laurin, Columbus
Jean Annette Lyle, Alger
Julie Kathryn Mack, Lima
Lawrence John Krauter, Columbus
Randy Lee Leffler, Carroll
Kurtis Allen Leffler, Dana Lynne Lee, Cleveland Heights
Craig Eric Moore, Columbus
Anna Le Le Nguyen, Columbus
James Alan Murch, Youngstown
Tama Ray Naron, Zanesville
Lisa Michelle Nowak, Springville, NY
Peter Devlin Oflaherty, Gahanna
Paul Robert Ogburn, Columbus
Stephanie A. Sheppard, Marietta
Frederick Michael Shimp, Columbus
Delisa Diane Shondrick, Akron
Cathy Ann Shortridge, Reynoldsburg
Natalie Christine Salamon, Chardon
Tina Marie Labor, Columbus
John Scott Leach, Pickerington
Dana Lynne Lee, Cleveland Heights
Matthew David Lee, Elyria
Kurtis Allen Leffler, Ontario
Randy Lee Leffler, Carroll
Jimmy Jay Lefron, Cincinnati
Mark James Lehrkauth, Bellevue
Jalayne Kathryn LeMaster, Marion
Alison May Lewis, Defiance
Todd William Linton, Salem
Kathleen Sohui Litirizza, Westlake
Chrisanthy J. Loizos, Broadview Heights
Mark Joseph Lukens, Lancaster
Jean Annette Lyle, Alger
Erin Leigh Maccallin, McLean, VA
Julie Lynn Mancini, Lima
Erik Edward Mackling, Bucyrus
Anne Victoria MacMillan, Mentor
Paul Christopher Madden, Flanders, NJ
Hripsime Malajkian, Cleveland
Linda Ann Mangus, Berrien Springs, MI
Sherry Lynn Maniere, Detroit, MI
Rebecca Lynn Margolis, Lorain
Lisa S. Mariano, Columbus
Keith James Markano, New Milford, NJ
James William Martin, Jr., Wayneville, NC
Robert Thomas Mazak, Wickliffe
Lauro Marie Mazolla, Westlake
Janet Lee McCormick, Columbus
R. Sean McKee, Upper Arlington
John William Mcnamara, Sterling, VA
Elizabeth Anne McNichol, Warren
Ardrienne George Miebring, Reynoldsburg
Bette Lynn Mendenhall, Columbus
Edward Lyle Merta, Vandalia
Sandra Jane Mikol, Mentor
Mary Ellen Miller, Kent
Michael Christopher Miller, Dayton
Trent Alan Miller, Mt. Vernon
Wendy Sue Miller, Millburns
James Alan Murch, Youngstown
Mary Alice Montgomery, Worthington
Craig Eric Moore, Columbus
Wendy Christine Moore, Lakewood
Loti Anne Morse, Columbus
Joshua Adam Mott, Columbus
Anthony James Muhlenkamp, Westerville
Shelly Lynn Mullen, Columbus
Tricia Lyn Murphy, Edinboro
Jared B. Muszelman, Massillon
Linette Michelle Nadar, Flint, MI
Susan Beth Nash, Orient
Jason Norman Nehal, Akron
Mark James Nelson, Grandview Heights
Pamela Jane Nelson, Worthington
Jeanne Louise Nemeth, Chesterville
John Gilbert Nespeca, Youngstown
Elisabeth Ha Le Nguyen, Columbus
Annette Cherie Nienhaus, Dayton
Tamera Kay Norton, Zanesville
Lisa Michelle Nowak, Springville, NY
David Marshall O'Daniel, Westerville
Peter Devlin Oflaherty, Gahanna
Patrick Lynn O'Grady, Middleburg Heights
Eric Kelly Ohman, Louisiville
William C. Omlor, Sandusky
Luz-Maria Gonzalez Ortiz, Guanajuato, Mexico
Mary Frances Palumbo, Columbus
Nicholas George Panagis, Wintersville
Tanya Evtte Partridge, Westerville
James Joseph Paterson, Lorain
Linda Rose Peck, Columbus
Timothy J. Pedon, Columbus
Sylvia Ann Perez, Brook Park
Gregori Scott Peterson, Columbus
Paul M. Pettus, Englewood
Mark Richard Pfaff, Rocky River
Jodie Lynne Pfahler, Mansfield
Sarah Elizabeth Pierce, Mansfield
Stacey Lynn Pittcock, Westerville
Lovicia Margaret Plington, Grove City
Jonathan David Politi, Columbus
Walter Newton Powell, Thornville
Amy Lauren Price, Akron
David Armand Pucci, University Heights
Mark Edward Puetz, Columbus
Robert Hermann Pusch, Columbus
Brian James Putnam, Chillicothe
Jackie Lynn Rabenold, Cincinnati
Michael Phillip Randel, Cleveland
Heather Elaine Rittenhouse, Delaware
Vivian Sue Robinson, Dublin
Molly Marie Roche, Cincinnati
Sean Thomas Romanoff, Columbus
Paul Joseph Rose, Canton
Kimberly Lynn Rothe, Powell
William Gregory Rowland, Worthington
Dianne Elizabeth Rudder, Columbus
Colleen Marie Ryan, Cleveland
Julisi Ann Ryan, East Liverpool
Karla Christine Salmon, Chardon
Bradley Earl Sams, Columbus
Matthew Robert Sapp, Sapp
John Edmund Sauer, Columbus
Kathryn Joanne Saul, Franklin
Tom Sanzanford, Norwalk
Kevin Michael Schad, Newark
JoEllen Schaefer-Mays, Columbus
Tracy Michael Schepflein, Fremont
Sydney Anne Scheible, Columbus
Matthew Thomas Schuler, Mansfield
Daniel Alan Schwab, Holgate
Brenda Sue Schwartz, Akron
Eric James Schwitzer, Phillipsburg
John Joseph Scott, III, Columbus
Jacqueline Maria Segura, Toledo
Amy Lynn Sever, London
Julie Lynn Sever, Columbus
Beth Anne Shafrazi, Gahanna
William Carey Shanks, Hudson
Michael John Shea, Columbus
Liesl Marie Sheets, Gallipolis
Matthew Wayne Shellabarger, Brookville
Laura Anne Shellerbein, Macedonia
Stephanie A. Sheppard, Marietta
Frederick Michael Shimp, Columbus
Denise Diane Shondrick, Akron
Cathy Ann Shortridge, Reynoldsburg
Wendy Nola Showak, Fairlawn
Michael Scott Slane, Hilliard
Angela Smith, Columbus
Delora Smith, Columbus
Jeffrey Stephen Smith, Strasburg
Francois Jean Sniekarski, Columbus
Michael Todd Snyder, Gahanna
Kevin Adam Summers, Kingwood, TX
Robert Eric Somogyi, Mayfield Heights
Charles Henry Stahl, Mansfield
Tomia Sommers, Columbus
Joshua Lawrence Stahl, Columbus
Suzanne Kay Stanton, South Charleston, WV
Craig Stephen Starr, Cleveland
Robert Ann Stephenson, Columbus
Robert Allan Stern, Hudson
Derrick Alec Stewart, Euclid
Michelle Marie Stewart, Huber Heights
John Stuart Stith, Georgetown
Susan Emily Stecker, Cincinnati
Laurence Stott, Columbus
John Martin Stover, Greenville
Latricia Annnette Street, St. Marys
Scott Richard Streng, Anal-plis, CA
Robin Louise Street, Columbus
Scott Robert Suydam, South Euclid
Lisa C. Swartzwelder, Mentor
John Joseph Szczypinski, Pittsburgh, PA
Mary Ammon Talley, Redondo Beach, CA
Wendy Gene Tanner, Manlius, NY
Ralph Leon Tatman, Columbus
Scott Andrew Taylor, Pickerington
Margaret Ann Telb, Toledo
Jeffrey Scott Theis, Vandalia
Andrea Lynn Thomas, Dublin
Marcella Ann Thompson, Columbus
Nicholas A. Tice, Brookfield
Deborah Sue Tipp, Maineville
Deborah Sue Tipp, Maineville
Marcella Ann Thompson, Columbus
Laura Lynn Liebenauer, Chesterland
Terri Dana Wayne, Cincinnati
Jodi Kay Walker, Louisville
Brett Alan Walser, Lancaster
Michael Henry Wander, Canton
Reginald Bernard Ware, Cleveland
Angela Kay Warnke, Columbus
Sarah Anne Weber, Sunbury
June Anne Weekley, Westerville
Lee S. Weinstock, Shaker Heights
Lana Rachel Wells, Boston, MA
Deborah Sue Whaley, Dayton
Douglas MacleodWhitfield, Columbus
Meredith Lee Whiteney, Columbus
Stephanie Lynn Wiegel, Springfield
Ann Elizabeth Williams, Columbus
Gregory Allen Williams, Cincinnati
Steven Ray Williams, Fairborn
David Stuart Winakor, East Haddam, CT
Jacqueline Lara Winans, Lebanon
Natalie Kay Wolfe, Hilliard
Robert Gene Woodward, Jr., Steubenville
Timothy Andrew Woodward, Columbus
Ramona Elizabeth Wright-Reynolds, Columbus
Julie Ann Young, Zanesville
Todd Andrew Young, Cincinnati
Becky Lynn Younggen, Delphos
Craig Alexander Zahniser, Columbus
Viivian Zoletas, Cincinnati

Bachelor of Science

Christopher Todd Armour, Fulton, NY
Geoffrey Edmunds Best, Massillon
Juanita Irene Bexel, Worthington
Kristin Lynn Bodner, Massillon
Jeffrey Alan Borel, Worthington
Julia BeRae Brown, Northfield, OH
Washington Court House
Michael Sean Brown, Lexington
Kirstin Michelle Bryan, Worthington
Olivia Ting-Ting Chu, Nashport
Julie Ann Dailey, Cuyahoga Falls
Richard Alan Davis, Medina
Toby Lynn Derrick, Columbus
Timothy Gordon DeVore, South Point
Renée Drury, Massillon
Holly Anne Enchelman, Toledo
Chippewa, OH
Cincinnati
Michelle Lynne Finneran, Princeton, NJ
Dawn Michelle Fuggett, Fortostia
Cheryl Ann Getz, Mansfield Heights
Jeffrey Donald Geth, Cincinnati
Michelle Suzanne Gross, South Euclid
Argyrios Konstantinatos Haritos, Athens, Greece
Rogelio Alvarez, Columbus
Lee Ann Holley, Windsor
Lisa Ann Hunsberger, Davison, MI
Phillip Scott Jacobs, Columbus
Patul Kirit Kapadia, Upper Arlington
Michael Warren Klein, Dublin
Lynn Marie Krise, Stow
Gina Kaye Lehr, Columbus
Lauri Lynne Liebenauber, Chesterland
Darcy Lynne Lord, Grove City
Brett Alan Walser, Lancaster
Derek Steven Meyer, Columbus
Jeffrey Warren Miller, Amelia
Rosemarie Moll, Upper Sandusky
Pamela Marie Nelson, Columbus
Phillip Lee Norton, Newark
Jerald Frank Ogrisseg, Canton
Regina Diane Oldinsky, South Euclid
Craig Raymond Oshima, Fairborn
Regina Yvette Owens, Mansfield
Thomas Armand Pampush, Rocky River
Brett Arnold Papenhagen, Toledo
Jason Alexander Peck, Reynoldsburg
Sheila Rae Pardue, Bellefontaine
Chun Ho Poon, Columbus
Phillip Terry Potter, Lakewood
Jennifer Lynn Potts, Hannibal
Amy Lynne Robins, Toledo
Kirk Brody Rose, Dayton
Steven Vincent Savage, Columbus
Terrence Allen Smith, Sandusky
Teddi Joann Stepen, Gates Mills
Olave Sue Stover, Columbus
Mark Edward Stratton, Eliza
William Carl Stumphauzer II, Amherst
Cassandra Suggs, Columbus
Walker Neikirk Sycnor, Powell
Joseph A. Terry, Pleasant City
Deborah J. Thomas, Belle Valley
Lisa Dawn Thomas, Westerville
Melissa Della Watkins, New Philadelphia
John Ballentine Webster,
Grove Pointe Farms, MI
Rebecca Anne Wetmore, Cleveland Heights
Richard James White III, Howland
Wendy Sue Wolff, Cincinnati

School of Journalism

Bachelor of Arts in Journalism

Thomas Lee Allemier, Lima
Melissa Diane Allison, Centerville
Kimberly Rose Anton, Ironon
Brian Thomas Austin, Buffalo Grove, IL
Lisa Joy Barberee, Fremont
Roy Joseph Bartemay, Youngstown
Susan Lynya Bemal, Cuyahoga Falls
Andrew Prince Bensley, Worthington
Steven Tad Bieman, Shaker Heights
Mary Barbara Bjorn, Hudson
Bonnie Steele Boal, Upper Arlington
Joseph Anthony Bolger, Gahanna
Brian Robert Boshaw, Salem
Kitty O'Hara Butler, Gahanna
Donna Alison Campbell, Brooklyn, NY
Cheryl Marie Cannon, Columbus
Robert Lister Caplan, Dayton
Denise Lynn Cardaman, Chagrin Falls
Zinie Chen, Ashland
William Dennis Clary II, Cincinnati
Bradley Alan Clucus, Columbus
Bernard Terrance Crendall, Columbus
James Allen Craig, Columbus
Melissa Ann Cutler, Dayton
Margaret Decker, Lucasville
Sean Christian Demaray, Worthington
Heidi Lynn Dixon, Columbus
Mark Francis Donahue, Lyndhurst
Stacey Lynn Donovan, Wapakoneta
Hillery Carol Dwosh, Cleveland
Susan Beth Eagleston, Mansfield
Cari Lynn Elmer, Columbus
Karen Lynn Erman, Coshocton
Tanjia René Fazzari, Toledo
Sophie Ferenz, Geneva
Thomas Gregory Ferguson, Columbus
Denise Ann Fissel, Columbus
Kimberly Ann Flynn, Niles
Mary Ellen Foley, Columbus
David Tova Franksel, Columbus
Daniel Harry Friedman,
 Highlands Park, IL
Brad Allen Gaierke, Minster
Gary Robert George, Cincinnati
Stephan Andrew Gordon, Cardington
Kara Beth Grady, Millville, NJ
Beth Ann Griese, Trotwood
Jay Horbort Gross, Livingston, NJ
Terri Lynn Gural, Sylvania
Tanya LaVette Harris, Pasadena, CA
Jonathan Eric Hartstein, Beachwood
Stephen Mack Heilwagen, Circleville
Robert Forrest Herbert, Millford
Todd Christopher Heron, Kettering
Beth Kyle Herschelman, Lornain
Tracey Lee Hoskin, Burghill
Nancy Sue Hubbard, Worthington
Eric Ryan Hubman, Vandalia
Elizabeth Irene Illes, Dayton
Barry Mitchell Jacobson, Lyndhurst
Shawn Alan Jones, Reynoldsburg
Shashank Kamdar, Centerville
Sharon Louise Kaser, Worthington
Jon Frederick Keller, Lakewood
Sonia Annette Kelly, St. Croix, Virgin Islands
Susan Lynn Kimberly, Columbus
Thomas Todd Kipp, Bexley
Juli Ellyn Klyce, Worthington
Laura Ann Knaack, Columbus
Angela Marie Konstantaras, Brecksville
Beth Anne Kuhlman, Toledo
Sonia Annette Kelly, St. Croix, Virgin Islands
Robert Edward Lee
Mary Carol Miller, Columbus
Kimberly Joyce Lockhart, Medina
AnnMarie Nolan, Cincinnati
Linda Michele Loescher, Mansfield
Tania Renee Roberts, Fairborn
Michele Yvonne Patry, Garrettsville
Kathryn Marie Moden, Neenah, WI
Shannon Renee McCutcheon, Columbus
Becky Joann Moore, Reynoldsburg
Meni J. Morris, Dayton
Susan Mary sampled, Columbus
Medical
Susan Anna Butler, Woodland Park, CO
Robert Allen Folck, Springfield
Mary Carol Miller, Columbus
AnnMarie Nolan, Cincinnati
Barbara Jean Nolan, Shaker Heights
Mary Carol Miller, Columbus
Barbara Schumaker Oliver, Fredericktown
Linda Michele Loescher, Mansfield
Susan Patricia Osif, Columbus
Becky Joann Moore, Reynoldsburg
William Richard Boulevard, Lakewood
Mary Carol Miller, Columbus
Barbara Schumaker Oliver, Fredericktown
Susan Patricia Osif, Columbus
Michele Yvonne Patry, Garrettsville
Amy Lynn Pavolko, Elyria
Edward Petoniak, Whippany, NJ
Tina Maria Petrella, Olmsted Falls
Wendy Ellen Pizzino, Salem
Jeffrey Lowell Rea, Marysville
Laura Kristin Reed, Bexley
Patricia Marie Remmen, Sandusky
Patricia Ann Resatka, Warren
James Robert Ressa, Columbus
Tanya Renee Roberts, Fairborn
Renee Ann Rosati, Galena
Rodney Brian Russell, Lebanon
James Stuart Ruttenberg, Pittsburgh, PA
Lissette Salazar, Rio Piedras, PR
Lisa Lynn Schomer, Daytona Beach, FL
Leslie Gilmore Schryver, Warren
Barbara Ann Schulte, Kalida
Janet Eleanor Schwan, Westlake
Greta Patricia Seaholm, Upper St. Clair, PA
Julie Anne Sellers, Shaker Heights
Bradley Wayne Snyder, Butler
Robert Douglas Stansbury, Granville
Matthew James Stefan, Centerville
Richard Dean Stolz, Lebanon
Suzanne Marie Stempson, Fairborn
Tina Lee Straw, Amherst
Ann Elizabeth Sumwall, Huron
Mark Douglas Swabby, Upper Arlington
Sheila Elizabeth Sweeney, Toledo
Whay Khan Teo, Singapore
Susan Lee Thomas, Columbus
Daniel Christopher Vaughan, Cincinnati
Shelley Alise Vigder, Akron
Matthew Lee Wagner, Troy
Mary Sullivan Westbrook, Houston, TX
Keith Michael Whister, Dayton
James Thomas White, Lyndhurst
Steven Mark White, Columbus
Suzanne Marie Stempson, Fairborn
Tina Lee Straw, Amherst
Ann Elizabeth Sumwall, Huron
Mark Douglas Swabby, Upper Arlington
Sheila Elizabeth Sweeney, Toledo
Whay Khan Teo, Singapore
Susan Lee Thomas, Columbus
Daniel Christopher Vaughan, Cincinnati
Shelley Alise Vigder, Akron
Matthew Lee Wagner, Troy
Mary Sullivan Westbrook, Houston, TX
Keith Michael Whister, Dayton
James Thomas White, Lyndhurst
Steven Mark White, Columbus
Judith Brewer Wiseman, Columbus
Briggren Beth Wrinkle, Westerville
Laura Ann Young, Columbus
Leslie Ann Zucker, New Washington

College of Agriculture
Acting Dean: J. Robert Warmbord

Bachelor of Science in Agriculture
Mark Bamback, Cincinnati
Brian James Barrett, Vincent
Beverly Ann Baumberger, Beaville
Denise Renee Bee, Amlin
Ellen Geneva Marie Bergfeld, Columbus
Genevieve Aleia Bishop, Hilliard
Lance Edward Bonin, Bloomville
Daniel Robert Broering, Coldwater
Michael Louis Broerammer, Camden
Walter O. Bumgarner III, Mechanicsburg
Joseph A. Burnss, Lancaster
Robert Thomas Collina, Columbus
Stanley Dean Cook, New London
Tia Joy Cooper, Winchester
Donald Eugene Dalton, Quincy
Jill Anna Davidson, Sidney
Douglas Allan Davis, West Lafayette
Gregory Steven Delliger, Milford Center
Randy Lee Delpeson, East Liverpool
Brian Patrick Demos, Elyria
Frank William Dietz, Duncan Falls
Matthew G. Dunkle, London
Martin Frederick Dunton, Chagrin Falls
Randall T. Eisel, Alvordton
Elizabeth Ann Evans, Galahana
Mary Beth Fennler, New Paris
Holly Ann Fender, Columbus
Robert Paul Fillburn, New Carlisle
Robert Allen Folck, Springfield
Charles Christopher Gates, Oak Harbor
Mark Richard Gerber, Columbus
James Raymond Gresh, Powell
Stephen Darst Grand, Columbus
Teresa Christine Guess, Jamestown
Daryl Luke Guggenbiller, Fort Recovery
Michael David Hagerty, Columbus
Mark Alan Haldeman, Eaton
Joseph Staley Hart, Belmont
Marc Albert Hasson, Celina
Rhonda Michelle Hattan, Hillsboro
Douglas Myron Hoelscher, New Knoxville
Jonathan Donald Hord, Bucyrus
Raymond Laurence Jackson, Wellington
John Orto Jones, Liberty Center
Roderick Alexander Kagy, Bloomville
Jane Kent, Mechanicsburg
Vincent Richard Kinstle, Columbus
Jeffrey Reni Kneuder, Forest
Teresa Charleen Kooper, New Bremen
Susan Lynn Koppes, Medina
Julie Lee Lemmermen, Tiffin
James Edward Longin, Louisiville
Melinda Sue Matthews, Urbana
Charles Hutchinson McClintock, Madison
Diane Marie McManus, Granville
Lori Lynne McMaster, Columbiana
Francis X. Melendez, Bayamon, PR
David Ferguson Michael, Mechanicsburg
William Albert Miller, Middletown
Joseph Patrick Obringer, Vandalia
Karen Joyce Ostrander, Columbus
Eric F. Perry, Westerville
Douglas Duane Phillips, Kenton
Cy Leroy Prettyman, Morral
John Raising, Uniontown
Ken Eric Renner, New Carlisle
Joel David Rhoades, Ohio City
Robert Roy Riddle, Sidney
Sean Michael Robinson, Zanesville
Julie Lynn Rorem, Oxford
Daren Charles Rowland, North Canton
Jerrold Jay Salzman, Ada
Eric David Saunders, Toledo
Holly Ann Scherler, Brighton, MI
Eric Paul Schuerman, Pemberville
Keith Edward Serasy, Coshocton
Matthew Lynn Smith, Urbana
Joseph Harold Snyder, Chillicothe
Alouama Souma, Republic of Niger
Greg Mitchell Steiger, Bucyrus
Micaq Len Stevens, Williamport
Robert Ashley Taft Jr., Windham
Marci Dawn Thompson, Circleville
Nancy Lyn Thompson, South Solon
Jill Marie Tinker, Alliance
Jefre Louis Tschudi, Columbus
Douglas Allen Uher, Fresno
Steven James Vaske, Medina
Michelle Renee Weber, West Unity
Kevin Werdn, Columbus
Nicholas James Welring, Burkettsville
Cheryl Darlind White, Stockport
Theodore Henry White, Canton
Kandra Denise Wilde, Farmdale
Steven Richard Wilden, Plainfield
Linda M. Wilson, Columbus
Marilyn Lee Wilson, Columbus
Jay Howard Wippel, Ashville
Kathryn Elizabeth Wolfe, Westerville
Paul Joseph Zarlego, Canton
Lori Ann Zenz, Liberty Center
Edward Stanley Zore, Richmond Heights

Bachelor of Science in Food Science
William Hubert Ayars, Jr., Mechanicsburg
Frank Allen Berghold, Valley City
Eric Leonhard Dulper, Newark
David Donald Korte, Delphos
Angela Kaye Lehman, Upper Sandusky
Eric Reed Myers, Delphos
Laura Ann Pease, Maumee
James Carl Roszell, Harrison

Bachelor of Science in Food Technology
Jill Diane Hackett, Apple Creek
Niedra D. Hill, Cincinnati
Darla Rae Fi, Cincinnati
Brian Joseph Stemley, New Weston
Bachelor of Science in Nutrition
Dawn Leigh DaHinden, Ashland
Joan Marie Pero, Hartville

School of Natural Resources
Bachelor of Science in Natural Resources
Kathleen Adams, Columbus
Amanda Bost Austin, Greenhills
Richard Scott Baker, Cleveland Heights
Krista Lynn Barnett-Beck, Bellevue
Ted Timothy Bishop, New Holland
Allison Louise Boehler, Marysville
Gary Andrew Bulla, Cincinnati
Pamela Char, Columbus
Wayne Steve Colegrove, Waverly
Robert Lyle Hendrick, Columbus
Brett Eric Fletcher, Columbus
Suzanne Elaine Good, Kettering
Thomas Andrew Haley, South Charleston
Michael Lee Heymeyer, Worthington
Edward Thomas Holland, Lakewood
Mark Alan Hospin, Lockport, NY
Derek James Janson, Springwater, NY
Mary Elizabeth Kniezim, Lakewood
Kenneth Gerald Kopycinski, Mansfield
Kristine Marie Kovesdi, Southgate, MI
Christopher Lawrence Lask, Cleveland
William Thomas McLean, Canton
Mark Joseph Minnitti, Elyria
Shelley Jean Mott, Kettering
Michael Alan Narotski, Akron
William Edward Novak, Galion
Kristine Marie Kovesdi, Southgate, MI
Karalynn Marie Zimmer, Upper Sandusky
Hoadley Sheaffer, Tiro

Agricultural Technical Institute – Wooster
Associate in Applied Science
Benjamin Craig Ackerman, New Washington
Kenneth Leo Anderton, Lakewood
William D. Bailey, Greenwich
Sheila Dawn Ball, Wooster
Lou Ellen Baughman, Kenton
William R. Beckler, Wooster
Eric Dean Bdlaic, Continental
Howard, Allen Born III, Amherst
Law Jason Brod, Akron
Dawn Marie Burkhart, Brocksville
Daniel Chester Cox, Eaton
Jeffrey W. Daugherty, Wooster
David Alan Eames, Cleveland
Brian Keith Evans, Seville
Raymond Bruce Fitzsimmons, New Waterford
Marcella Ann Galbraith, Dalton
Ann Margaret Gage, New Philadelphia
Jonathan Edward Glass, Loudonville
Franklin R. Golec, Dennison
David Charles Heath, Medina
Thomas J. Hudly III, Paris
Joke Jacob Ingram, Canal Fulton
Randy Michael Jackson, Bucyrus
Angela Ruth Kaverman, Fort Jennings
Joanne Marie Keck, Canal Fulton
Tony Wayne Kies, Sidney
Larry Edward Kleinlein, Lucas
Timothy E. LaHorn, Mt. Vernon
Jennifer Roberts Lew, Akron
Blair Adam List, Pickerington
Dan W. Lochtiefel, Fort Recovery
Nicholas R. Marrall, Mapleville Heights
Michael Scott McKosky, Thompson
Gwendolyn Kay McMillen, Mt. Vernon
Donald Lynn Messor, Sheboygan Falls, WI
Scott William Metz, Wapakoneta
Michael Joseph Mikulin, Wadsworth
Melanie Sue Miller, Wooster
David Michael Moore, North Lewisburg
Keith Alan Mutti, Stone Creek
Patrick Alexander Newell, Oberlin
Bonginkosi J. Njokwe, South Africa
Theodore Frank Pasko III, Lima
Michael David Pfahler, Bucyrus
Timothy Daniel Ramos Milford
Kevin David Rauch, Marysville
Charlotte Annett Redman, Delaware
Timothy Eric Ruh, Vermilion
Todd William Sanor, Salem
Glenn James Schaal, Kensington
Daniel Eric Schaller, Findlay
Albert Jacob Scheiderer, Jr., Beallsville
Michael D. Schmidt, Lakewood
Jennifer Diana Schneider, Avon Lake
Charles T. Schreiber, Continental
Bradley Dean Schroder, Wadsworth
Paul Hoadley Sheaffer, Tiro
Darin Patrick Skinner, Delaware
Joseph E. Staraitis, North Jackson
Todd L. Studenka, Wauseon
Francis Andrew Teichman, Owoosso, MI
Glenn Alan Turner, Jeromesville
Joseph Andrew Varner, Wooster
Alan Thomas Vonderhaar, Camden
Melanie Lynn Walpole, Brewster
Gregory Scott Ward, Sidney
Lara Elizabeth Weber, Akron
Melanie S. Williams, Marion
Shawn Allan Williams, Croton
Kevin David Wolfe, Upper Sandusky

College of Business
Acting Dean: Astrid E. Merget
Bachelor of Science in Business Administration
Christine P. Abbott, Pickerington
Christina Marie Abruzzese, Columbus
Barbara Gayle Abramson, Greensburg, PA
Roque L. Abar, Absherton
Gaddenhutten
David Brian Akers, South Vienna
Timothy Jay Albright, Circleville
Todd Robert Allenbach, Elida
Oesen Amin, Raliklapunan, Indonesia
Curtis Duane Anderson, Jamestown, NY
Jodi Lynn Arata, Gahanna
Ward Clayton Argus III, Mansfield
Mark Gregory Arnett, Worthington
Alan Marc Aronowitz, Mansfield
James Emidio Baldini, Worthington
Todd Alan Baran, Warren
Wendy Marie Barba, Ashland
Keith David Barber, Westlake
Donna Marie Barnes, Cleveland
Lorinda Tomlinson Barnard, Dublin
Stacy A. Barrett, Bellfonite, PA
B. Scott Bartlett, Newark
David Alan Basler, Grove City
Phillip Robert Bauder, Delaware
Donna E. Bauer, Mansfield
Karen Marie Bauer, Worthington
William Roy Baumel, Cincinnati
Kirstyn Marie Bay, Vandalia
Kimberly Allyn Beck, Mentor
Scott David Becker, Botkins
Kathleen Ann Beckley, Dennison
Roger C.S. Beedon, Marysville, MI
Beatrice Lilly Belcher, Cincinnati
Melinda Annette Bell, Westerville
Patrick Lawrence Bell, Westerville
John Edson Benadum, Springfield
Lorie Ann Bostaph, Belpre
Bryan Joy Billig, Newark
Patrick Matthew Bils, Upper Sandusky
Marcus James Bishop, McComb
Scott Edward Blaine, Springfield
Cheryl A. Blair, Queens, NY
Lynda Dawn Blakely, Columbus
David L. Blankenship II, Wheelersburg
Bradford J. Blecha, Circleville
Brian Jeffery Bleichrodt, Doylestown
Bryan David Block, Zanesville
John David Boll, Rocky River
Joseph L. Bonstorph, Belpre
Joseph P. Bosworth, Pickerington
Wayne Theodore Botkin, Urbana
Michael David Bowman, Zanesville
David C. Brake, Plain City
Jeffrey Lee Latona, Youngstown
Angela Jane Ekeler, Cincinnati
Jeffrey E. Esley, Centerville
Arti Amir Inasingh, Bradenton, FL
Andrew Ingel, Rocky River
Michael Ingersoll, Pickerington
Johnnie Jo Irvin, Lima
Sean Ivoghli, Columbus
Tracy Lynne Jackson, Mansfield
Karen Zatter Jefery, Parma
Cheryl Anne Janosek, Strongsville
Leslie L. Jennings, Warren
Edward L. Johns, Van Wert
David Alan Johnson, Mt. Clemens, MI
Diana Jane Johnson, Van Wert
Jacquelyn Johnson, Cincinnati
Lilli Ann Johnson, Urbana
Michael Christopher Johnson, Canton
Sherri Lynn Johnson, Mentor-On-The-Lake
Tabitha Sue Johnson, Wellington
Bradley Keith Jones, West Union
Susan Lynne Jones, Pickerington
Angela M. Jordanek, Lexington
Steven Carl Julian, Columbus
Erin Lee Kasile, Upper Arlington
Bonnie Sue Kaufman, Glandorf
Timothy Scott Kaurich, Toronto
Eric R. Keener, Holland
Scott Michael Keelin, Beachwood
Todd Michael Keilen, Shaker Heights
Nelson Stephen Kelemen, Upper Arlington
David Matthew Kelly, Delaware
Karen Lee Kelly, Kettering
Basil Ibrahim Khalaf, Amman, Jordan
Trudy Annette Kick, Loudonville
Hong-Sung Kim, Seoul, South Korea
Jeffrey Howard Kim, Solon
Michael McVay Kimble, Columbus
Stephen Bradley King, Cincinnati
David Andrew Kirk, Westerville
Robert Joseph Kish, Youngstown
Israel Mack Klong, Bath
David Allen Knabe, Columbus
Rebecca Jane Knecht, Washington Court House
Lon Eileen Knecly, Coshocton
Christine Marie Knoffa, Lima
Lisa Marie Koch, Cincinnati
R. Michael Koheler II, Columbus
Joseph Christian Kohmann, Fairlawn
Antheanose A. Kontomerkos, Columbus
David Andrew Kosciuk, Crestline
Michael Kenneth Kossow, Amherst
John Kotre, Jr., Columbus
John Norman Kovach, Shadyside
Mark Allan Kovachick, Bedford
Jennifer Anne Kral, Lyndhurst
Steven Eugene Kretzer, Columbus
George A. Krum, Jr., Steubenville
Kim Lian Kuah, Singapore
Jeffrey John Kuczek, Boardman
Karen S. Kuhman, New Riegel
Gary J. Kuchma, Cincinnati
Donald John Kujawski, Avon
Michelle Kudrata, Marion
Mitchell Francois Lach, Cincinnati
Jeffrey John Ladrow, Toledo
Lisa Susan Larmi, Warren
George David Laundress, Tipp City
Stuart Garrard, Lawns, Columbus
Scott Thomas Lannon, Louisville
Christin Ann Lamson, Massillon
Christopher Michael Lanzen, Kent
Theresa Larron, Cincinnati
Lynette E. Lerner, River Forest, IL
Richard R. Lewis, Zanesville
Michael Raymond Liggett, Parma
Teng-Piao Lin, Kuala Lumpur, Malaysia
Kathleen May Lindenh, Rocky River
Brian David Lippert, Massillon
Stephen Anthony Lipscorn, Bucyrus
Mark Charles Lisicky, Elyria
John Christopher Lister, Columbus
Michael Ray Llane, Columbus
Chai Keong Loh, Kuala Lumpur, Malaysia
Yew Kuan Loh, Singapore
DaiAnn Long, Alexandria
Bradley Steven Longstreth, West Lafayette
Lisa Ruth Lonske, Whitehall
Robert Franklin Lorain, Lorain
Robert Roland Lowery, Jr., Terrace Park
David Michael洛万z, Wyoming
David Mark Lukaschk, Gahanna
Donald Joseph Lukaschk, Gahanna
Jennifer E. Lumley, Elyria
Martin Eugene Lyle, Germantown, TN
Jennifer Sue Macek, Mt. Vernon
Melissa Kaye Malskewitz, Dayton
Christopher James Mancini, Cincinnati
Jennifer Elaine Manley, Grove City
Robert P. Marinella, Mansfield
Tanzilnaah Marriott, Thornville
Tina Marie Marriott, Thornville
Robert Louis Marsh, Lyndhurst
James Forrest Martin, Sardis
Kenneth Wayne Mason, Jr., Maumee
Sandra Lynn Mason, Missouri
Tracie Michelle Matheney, Coeur d'Alene, ID
Douglas Scott Mather, Grove City
Lucius Nirajan Mathur, Mumbai
Jeffrey Mark Mattern, Columbus
Emory Paul Matheson, Dayton
Brian Kirby Maughan, Canfield
Cynthia Davison May, Gallipolis
Jo Ann Maynard, Grove City
Neil Morris McBeath, Mason
David John McCabe, Worthington
Thomas Mitchell McClain, Urbana
Teresa Maria McClendon, Columbus
Kathleen Ann McCormick, Maumee
David Matthew McCoy, Centerville
W. Michael McDonald, Grove City
James Patrick McDonough, Columbus
Rhonda Britt McIntyre, Columbus
Mary Catherine McLaughlin, Bay Village
Eric Christopher McNally, Newark
Deanne Daille McNeil, Cohocton
Diane Lynn McNeel, Cohocton
Aaron Tyler McPherson, Circleville
Catherine Michelle McPherson, Columbus
Melissa R. McRae, Portage, OR
Kenneth E. Meek, Westerville
Lance Michael Meller, Ostrander
Brian Paul Michalski, Millburns
Christopher Alan Micks, Montpelier
Lee Anne Mieseler, Pickerington
Paula Ann Millard, Columbus
Anita Marie Miller, Newfield, NY
Barbara Young Miller, Marion
Sharon Annette Miller, Grove City
Scott Alan Millhouse, New Baltimore
Michael Charles Mills, Grove City
Denise Lynn Mitchell, Waynesville
Lynn Elizabeth Moeller, Cleveland
Kimberly Sue Monroe, Columbus
Mary Darlene Molitor, West Chester
Scott K. Momburg, Hilliard
Michelle Lynn Montgomery, East Liverpool
Edward Vincent Morgan, Rocky River
John Christian Morgan, Nasport
Jody Lynn Morrison, Wooster
Michael Edward Morrow, Pickerington
Jacqueline Regina Mort, Newark
Joseph Andrew Moss, Worthington
James A. Mosteller III, Columbus
Jian Spencer Muether, Hubbard
Christine Jayne Murphy, Pickua
Susan Christine Murphy, Columbus
Richard A. Mushruh, New Philadelphia
J. Scott Myers, Mt. Blanchard
Christa Kiki Ann Nagel, Columbus
Laguna Niguel, CA
Sang Wan Nam, Seoul, South Korea
Michael Frederick N cercost, Columbus
Michael Gerald Nejman, Aurora
Lea Yvette Newman, Columbus
David Anthony Nicholas, Orrville
Dariene Joy Nicols, Glen Ellyn, IL
Henry Noble III, Shaker Heights
Brian J. Noei, Portoria
B. J. Norell, Milwaukee, WI
Robyn Beth Novak, Pepper Pike
Victor Eugene O'Brien, Columbus
L. Kevin O'Connell, Columbus
James Andrew O'Hara, Gahanna
Patrick J. O'Morrow, Radford, VA
Suzanne Louise Offutt, Glenn Dale, MD
Douglas Eugene Olesen, Jr., Dublin
Mete Olvac, Bay City, MI
Sheila Marie Orders, Westerville
Linda Sue Packer, Radnor
Heather Lee Parish, Portsmouth
Hyun Sock Park, Seoul, South Korea
Julie Angela Paula, Cana Washington
David Scott Pearl, Beachwood
Scott Christopher Peetz, Strongsville
Abby Elaine Pemberton, Bellefontaine
Robert Michael Pence, Worthington
Christopher Dean Pendell, Worthington
John Noel Pettus, Rocky River
Todd L. Pillaumer, Bellevue
Daniel James Phelps, Akron
Dean Paul Phillips, Olmsted Falls
George Thomas Phillips, Westlake
Cecilia Leonia Pierce, Columbus
Aaron Lee Plets, Marion
Michael Lynn Pollard, Lucas
Holly Elizabeth Porter, Bay Village
Lance Brian Powell, Northville
Kevin Michael Powers, Cleveland Heights
Todd Andrew Pritchard, Coshocton
Claudia Annette Prolla, Mansfield
Michael Anthony Puliselli, Columbus
1113
College of Dentistry

Dean: William R. Wallace

Doctor of Dental Surgery

Susan Victoria Stanco, Columbus
Michael Alan Stefan, Columbus
B.A. (Miami University)
Jon Closman Stocker, Wooster
B.S. Nutrition
J. Roy Suarez, Columbus
B.S. (University of Toronto)
Mark Leroy Swielslowski, Columbus
Paul Anthony Topek, Girard
B.S. (Youngstown State University)
Colleen Garin Vienna, Columbus
Cert Grad Dent Hyg., B.A.
Jennifer Lee Wallace, Columbus
B.S.
Leonard Shouse Welch, Columbus
B.A. (Miami University)
Jeffrey Lee Wilden, Cleveland
B.S.
David N. Williams, Wooster
B.S. (Ashland College)
Scott Eric Williams, Columbus
B.S. (Brigham Young University)
Brian Emerson Woodward, Columbus
B.A. (Wittenberg University)
Mary Louise Zebrocki, Columbus
B.S. (Kent State University)
C. Roger Zody II, Oxford
B.A. (Miami University)

College of Education
Dean: Donald P. Anderson

Bachelor of Science in Education
Deborah Lyn Adams, Findlay
Robin Renee Allen, Ada
Jill Elizabeth Allison, Mason
Jane Kathryn Anderson, Tiffin
Michelle Lynn Anderson, Homerville
Susan Marie Armfield, London
Deborah Lynn Ashton, Canton
John Alan Babik, Columbus
Inowa Mohammed Baigga, Columbus
Kate Elizabeth Barnes, Columbus
Susan Elizabeth Barnhouse, Alliance
James Edwin Barrett, Columbus
Joseph Michael Barron, New Albany
Peggy Battles, Kenton
Marie Louise Bauer, Coshocton
Melissa Ann Begeman, Worthington
Michael Allen Bell, Heath
Sarah Ann Benendum, Columbus
Laura Christine Berichon, Bay Village
Sherri Dee Berman, Cincinnati
Cimber Lee Betts, Columbus
Mary Thurston Bienue, Columbus
Timothy Alan Blanchong, Lima
Julie Ann Blossom, Toledo
Ellen Marie Blum, Attica
Karen Rosanne Bonfiglio, Sandusky
Allison Margaret Bookless, White Plains, NY
Emily Elizabeth Bouldin, Columbus
Amy Renee Bowman, Warsaw
Lisa Ann Boyer, Shelby
Kamala April Bradford, Coshocton
Mary Elizabeth Branch, Shelby
Linda Brantman, Perrysburg
Mindy Lee Brown, Columbus
Scott Allen Brown, Newark
Tina Lee Brown, Richwood
Jennifer Kay Brown, Newark
Dane Randall Bultzer, Baltimore
Kimberly Mary Burke, Bedford
Jennifer Rae Butcher, Akron
Stephanie Ann Byers, Heath
Eric E. Cable, Pataskala
Evelyn Louise Cado-Curtiss, Columbus
Diana Marie Callaghan, Pataskala
Janet Linda Campbell, Mansfield
Amy Rene Canan, Tipp City
Tressa Michelle Carey, Spencerville
Debra Lynn Carnavea, Middletown
Sheila Marie Carr, Marion
Hugh Wesley Carrying, Cleveland
Connie Radine Carter, Mt. Vernon
Constance Pellegrino Cashman, Gahanna
Karen Dannielle Cavallaro, Westlake
Jacqueline Ihean Chaffins, Dayton
Richard Alan Chenault, Columbus
Julie Lynn Chenowith, Ashtabula
Linda Carol Cifino, Salem
Janet Rae Smith Clark, Swanton
Lois Kay Clouse, New Riegel
Jeffrey Lee Cole, Crestline
Holly Sue Coleman, Bellefontaine

Karl Douglas Coles-Neal, Columbus
Amy M. Collet, Upper Sandusky
Elizabeth Ann Colucy, Columbus
Jonathan Alan Comer, Springfield
Michelle Josette Conklin, Marion
Gretchen Anna Cook, Springfield
Linda Sue Cook, Tiffin
Maureen Patricia Cooney, Marion
Ellen C. Cooper, Granville
Kimberlee Rae Coppler, Upper Sandusky
Wanda K. Cordier, Connealy
Lance Michael Corven, Gahanna
James Alan Costas, Centerville
Laura Ann Cotter, Columbus
Gerald Earnest Cox, Groveport
Cathul Creviston, Marion
Sharon Caulley Cross, Hebron
Melanie Lynn Crump, Chula Vista, CA
Patricia Lynn Cumston, Marion
Derek Erin Cunningham, Arcadia
Amy Ann D'Amico, Columbus
Douglas Allen Darfus, Lancaster
Sandra Sue Darnell, Gahanna
Amy Maria Daro, Lima
Carla Kay Davis, Dublin
Amy Diane Denison, Pataskala
Michelle Renee Dennis, Elyria
Ginger Lynn Dennis, Bowerston
Deborah Joane DeVita, Lima
James Allen Diebley, Shelby
Lisa Schenztur Diemer, Upper Arlington
Laura Dietrich, Nankin
Janet L. Kielmeyer Dietrich, Marion
James Robert Dillon, Mansfield
Louis Ronald DiOrio, Worthington
Wendi Lyn Dix, Marion
Karen Marie Deoeflein, Cincinnati
Timothy Scott Dorsey, Columbus
Sarah E. Driscoll, Worthington
John Michael Duellman, Mansfield
Dawn Michelle Duncker, Beavercreek
Deborah Durham Dunleavy, Columbus
Barbara J. Eastman, Raymond
Shelley Dawn Ebrigt, West Jefferson
Rita Marie Edginton, Columbus
Barbara Bruce Edwards, Ciirdesrivers
Julie Kay Ebling, Kenton
Tammara Lynne Ebling, Dola
Michelle Anne England, Brook Park
Pamela Jane Ensinger, Richwood
Janet Ruth Eske, Baltimore
Jennifer Sue Evans, Columbus
Lauren Trenholm Evans, Washington, DC
Gordon James Falen, Blanchester
Michele Lynne Fasone, Annapolis, MD
Sandra Jo Faze, Lima
Itara B. Felus, Lima
Stephanie Louise Fenk, Jackson
Amanda Catherine Ferrys, Columbus
Leslie Lynne Flocche, Columbus
Molly Sue Flint, Columbus
Audrey Gale Fox, Greenwich
John Paul Fox, Findlay
Patti Jo Fox, Bucyrus
Julie Elizabeth Freeman, Centerville
Stephen Patrick Frutos, Kirkersville
Tracy Jean Frost, Wooster
Kimberly Ann Fudge, Granville
David Wayne Fugate, West Jefferson
Heather Elaine Rittenhouse, Delaware
Ronda Kaye Ritter, Bucyrus
William Alan Robbins, Ashville
Suzanne Kay Robertson, London
James David Robinson III, Columbus
Vicki L. Rogers, East Liverpool
Terry Jane Rose, Churchville
Rebecca R. Rosenbauer, Lima
M. Ann Rothrock, Pebble Beach, CA
Kerry Jo Rubadue, Worthington
Bradley David Rubin, Athens
Monique Marie Savan, Akron
Elaine Marie Schimmoeller, Fort Jennings
Jamie Sue Schimmoeller, Columbus
Christine Martin Schmitt, North Olmsted
Louis John Schmitt, Gahanna
Sara Alta Schorger, Newark
Susan Kay Short, Troy
Christine Marie Schmitt, North Olmsted
Tamera Jean Short, Troy
Sara Alta Short, Troy
Louis John Schmitt, Gahanna
Jacalyn Kay Slemmer, Columbus
Lisa Marie Snow, Mt.
Jeanette Marie Shaffer, Springfield
Suzanne Smolik, Ann Smith, Danville
Andrea Marie Zag, Reynoldsburg
Amy Lynn Smith, Burghill
Derek Anthony Smith, Brunswick
Pearl Ann Smith, Danville
Lori Suzanne Smolik, Columbus
Lisa Marie Snow, Mt. Vernon
Julie Ann Somes, Swartz Creek, MI
Angela Kaye Spencer, Wapakoneta
Beverly Ann Jenkins Staley, West Mansfield
B. Susette Stallard-Bales, Mansfield
Suzanne Fanses Stalder, Columbus
Barry Lon Stamper, Fairborn
Sally Marie Stevens, Columbus
Shaun Terrel Stevenson, Findlay
Mary K. Stoll, Newark
Tamara Jean Storts, Groveport
Carolyn Kay Stout, Coshocton
Craig Allan Strauss, Newark
Pamela Renee Stuckey, Hicksville
Ronald Eugene Summers, Columbus
Kellie Jean Swaggerty, Columbus
Toni J. Sweigart, Columbus
Alicia G. Sword-Larson, Columbus
Juan Luis Taqueche, Jr., Miami, Fl.
Kim Inez Telatinik, Amherst
Charles Burton Thiel, Wharton
Charlene F. Thomas, Columbus
Patrick Neil Thomas, Centerville
Crissa Stockwell Thompson, Columbus
Rochelle Testolin Thompson, Marion
Leslie Michael Thorn, Columbus
Marcus Philip Tidwell, Cleveland Heights
Patricia Kay Tinsler, Sidney
Carol Jaye Tobin, Marion
Tamara Kay Torbet, Lima
Diane Pullier Torrance, Lima
Theresa Ellen Towner, New Lexington
Heidi Lane Townsend, Westerville
Carol Elaine Trimbie, Delaware
Christopher John VanAndale, Columbus
Linda Louise Vance, Shelby
Michael D. Vandraski, Lakewood
Theodore Larry Vasei, Wingett Run
Natalie Ann Vinciquerra, Kirtland
Jeffrey Lee Vogt, Hilliard
Brian Lee Vredenburg, Plymouth
Melanie Phyrn Wahl, Elyria
Karen Marie Walaszek, Columbus
Christina Ann Walcutt, Powell
Ronda Eileen Wallace, Marion
Karen A. Walsh, Tunawanda, NY
Patrick Gregory Warner, Groveport
Sidney Lindley Waters, Westerville
Denise Marie Wawrosch, Boardman
Claudia J. Webb, Columbus
Barbara Jo Weber, Pioneer
Kay Lynn Weithman, Galion
Christine Marie West, Columbus
Margaret Ann Whelan, Bexley
Denis B. White, Piqua
Robin Lynn White, Groton
Sandra Sue White, Gahanna
Kathryn Sue Whitely, Orwell
Wenda Renee Wikander, Mt. Vernon
Jeffery Lynn Williams, Crooksville
Jo Anne Williams, Gomer
Kenneth Edward Willis, Cincinnati
Cathy Stephen Wilson, Mt. Vernon
Teresa Lou Wilson, St. Louisville
Elizabeth Anne Wilson, Lancaster
Debra Jo Winegardner, Thornville
Jennifer Ann Winkel, Columbus
Michele Ruth Witaliec, Heath
Melissa Justine Wolfe, Little Hocking
Amy Charlene Wood, Ironon
Stacy Woodford, Columbus
Mary Ellen Wormley, Kenton
Marla Louise Woytko, Medina
Jane Ann Wright, Shelby
Michelle Kay Wunder, Fairborn
Joseph Mark Wyczkoff, Columbus
Andrea Marie Zag, Reynoldsburg
Kathleen Annette Zuttell, Columbus
Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering
Dean: Donald D. Glower
Bachelor of Science in Aeronautical and Astronautical Engineering
Maria R. Arbogast, Marysville
John Peter Aplan, Middleburg Heights
David Edward Bailey, Vermilion
Terry Dean Bissell, Ravenna
Robert Adam Briggs, Gahanna
Scott Allen Dallinga, Akron
Peter John Davidian, Chagrin Falls
Mark Daniel DiCoco, Columbus
Shawn Kyle Doyle, Maynard, MA
Mary Elizabeth Eber, Columbus
Stephanie Eann Falbo, Follansbee, WV
Gino Paul Fina, Columbus
Gerald Michael Fuerst, University Heights
Michelle E. Gifford, Mansfield
Patrick James Gilliam, Ashville
Thomas John Greiner, East Syracuse, NY
Steven Lee Herrmann, Fairborn
Donald Andrew Hoying, Mentor
James Scott Huffer, Marion
Mark John Irwin, Medina
Hani Kamhawi, Columbus
Christopher Allen Kelble, Jamestown
George Joseph Klupar, Columbus
Daniel Joseph Kozey, Franklin, PA
Gary Ronald Krock, Oregon
Mark David Kunka, Brimfield
Bruce David Lanning, Jr., Ridgeville
Kevin Dale Laverty, Columbus
Beom No Lee, Seoul, South Korea
David William Luich, Niles
Philip Scott MacLean, Columbus
Leo Richard Marple, Jr., Salem
Andrew Paul Marshall, Troy
Patrick Shawn McClurg, Jackson
Laura Jean McDavid, Dayton
Kevin Lee McDonnell, Reynoldsburg
Jeffrey Franklin Miller, Greenhills
David Peter Misencik, North Ridgeville
Daniel Edward Molnar, Jr., Columbus
Scott Eric Sherry, Strongsville
Robert A. Stonebraker, Newark
Eric Joseph Strobel, Columbus
Thomas Allen Stuart, Painesville
Andrew Gerard Szemerekovsky, Bedford
Matthew John Tefend, Granville
Ravish Thamm, Dayton
Melissa Lee Tincher, Hilliard
James John Waiter, Onondaga, IL
Michael Patrick Walsh, Jr., Mentor
Heather Glorene White, Greenwich
Scott David Wider, Fairfield
Neil Edwin Zimmerman, Jr., Columbus

Bachelor of Science in Agricultural Engineering
Daniel Lee Dickson, St. Louisville
Christopher John George, Newark
Kevin Michael Keener, Ashland

Bachelor of Science in Aviation
Jeffrey Scott Bailey, Dexter, MI
William Douglass Borden, Reynoldsburg
Dennis G. Braun, Chagrin Falls
Daniel Parker Carrigg, Steubenville
Dennis Rae Crets, Folkston, GA
Sean Michael DeWitt, Marion
Larry A. Hawkins, Jr., Louisville
Paul Joseph Hickey, Lima
Bachelor of Science in Civil Engineering

Charles Andrew Collet, Fostoria
Darren Dee Cook, Columbus
Brad Eugene Deal, Millbury
Geoff Albert Delisto, Cortland
Steve Patrick Ferguson, Cincinnati
Carolyn J. Gebhart, Columbus
David Thomas Godier, Cincinnati
Debra Renée Grouls, Toledo
Patricia Ann Haas, Lockport, NY
New Ward Harris, Moncton, Canada
Robert Scott Hood, Sandusky
Mary Kathryn Hussey, Marblehead
Christine Marie Kaduboski, Ellieville, MO
Jennifer Marie Leshnock, Columbus
Patrick James Loper, Mt. Pleasant
Jeffrey Alexander Martone, Hampton, VA
Michael John McCort, Akron
John Andrew Moody, Shelby
Brenda Jane Moore, Dublin
Scott Swanson Mounts, Westerville
Bruce Bradley Nyeorges, By Village
Terry Lee Parker, Lima
Renée Michelle Payette, Newark
Frederic John Smith, Perry
Brian Wayne Tornes, Columbus
Jonathan David Webb, Bradenton, FL
Jeffrey A. Wiater, Columbus
Eric Harlan Wilburn, Delaware
Roberto Augustin Zayas, Rio Piedras, PR

Bachelor of Science in Computer and Information Science

Larry Dawson Armstrong, Ashland
Brian James Baker, Jamestown
Christopher Scott Barnhouse, Massillon
Neal Allen Baumeier, North Canton
John Richard Bean, Columbus
James Alan Bedner, Richmond
Brian Joseph Benedict, North Olmsted
Herbert Clement Berger, Mansfield
Carol Lynne Biega, Gahanna
John D. Buchanan, Columbus
Robert Ray Calhoun, Columbus
Ho Kai Chan, Columbus
Douglas Keith Cottrill, Westerville
Chris Eric Crabbs, Shelby
Ernest R. DeGidio, Clyde
Michael David Doel, Cincinnati
Anna Don, Cleveland
Kevin Robert Dunlap, Columbus
Daniel L. Evers, St. Henry
Vincent Joseph Fabro, Columbus
Kenneth Michael France, Evansville, IN
William Allen Frey, Lyndhurst
Mark Lyle Gass, Washington Court House
Jerry Keith Geer, New Carlisle
Paul Daniel Geiser, Genoa
Kenneth John Gettren, Bowling Green
Stephen Charles Grace, Fairborn
Robert Michael Griffiths, Westerville
John Dennis Hufnagle, Columbus
Brian Evan Hughes, Tiffin
Dale Edward Jablonski, Strongsville

Bachelor of Science in Electrical Engineering

Michael Gerald Adams, West Chester
Jin Kiong Ang, Bukit Mertajam, Malaysia
Anthony Angsana, Medan, Indonesia
Markos Athineos, Lorain
Donald Augustus Baldwin, Jr., Marietta, GA
Christopher Lee Banks, New Philadelphia
Mary Carole Bartlett, Mansfield
William Shaun Bosley, Columbus
Pamela Sue Brownfield, Gahanna
Kevin Lee Burgess, Grafton
Mark Craig Campbell, Columbus
Matthew Robert Carbonara, Columbus
Christopher David Cenuca, Galena
Ernest Pei-Ching Chen, Columbus
James Roger Clark II, Centerville
Paul Thomas Codispoti, Stow
Steven MichaelConnell, Oak Harbor
Christopher Josephandon, Fairview Park
Michelle Marie Elster, Brecksville
Frederick Maurice Ervin IV, Grove City
Mohamed Reza Etefaghi, Tehran, Iran
Robert James Flaske, Stow
Thomas Alexander Fote, Dayton
Anthony John Greve, Wapakoneta
Douglas Edward Grinckemeyer, Cincinnati
Paulus Surya Gunawan, Surabaya, Indonesia
Alexander James Hadjis, Wheeling, WV
Jeffrey Scott Hagloch, Dover
Troy Lynn Hanson, Columbus
Christopher Scott Hayden, Centerville
Robert Dru Henke, Akron
Jeffrey Scott Henn, Kirtland

Bachelor of Science in Ceramic Engineering

Daniel Clark Anderson, Gahanna
Heidi Anderson, Dayton
Christopher James Bloom, Oak Harbor
David Brian Campbell, Lima
Matthew L. Chretien, Westerville
Marc Alan Christian, Mansfield
Richard A. Drushal, Hebron
Keith Kenneth Eggeman, Delphos
Christopher Alan Goda, Lakewood
Andrew John Conos, South Amherst
Eric Walter Jaworsky, Euclid
Paul Joseph Kaverman, Wapakoneta
David Lane Mason, Jr., Oak Ridge, TN
Melinda Susan Mizak, Wadsworth
David Brian Oddo, Gates Mills
Christopher Alan Weaver, Aurora

Bachelor of Science in Chemical Engineering

Kara Bernadette Blachowski, Toledo
Michael Edward Caskey, Shelby
James Patrick Dangaran, Warren
James Adam Davis, Gahanna
Larry Dean Doza, Columbus
Jacqueline Dusey, Wellington, FL
Gregory Robert Glick, Navarre
Martha Ann Gossett, Belmont
Jennifer Lauren Grashel, Granville
Christopher Kizlik, Mineral City
Frank John Kizlik, Parataska
Darrin Leonard Lacheta, New Philadelphia
James Vincent Lombardi, Canton
Timothy Frank Matheis, West Chester
Md Zain Md Jai, Melaka, Malaysia
Michael Dale Moore, Woodfield
Rebecca Ann Mullins, Columbus
Paul Richard Peck, New Holland
James Michael Ryan, Cincinnati
James Henry Sawyer, Upper Arlington
Steven Gregory Sech, Parma
Daryl M. Westfield, Lucas
Stephen Edwin Wilson, Columbus
Richard Charles Zech, West Chester

Bachelor of Science in Civil Engineering

Charles Andrew Collet, Fostoria
Darren Dee Cook, Columbus
Brad Eugene Deal, Millbury
Geoff Albert Delisto, Cortland
Steve Patrick Ferguson, Cincinnati
Carolyn J. Gebhart, Columbus
David Thomas Godier, Cincinnati
Debra Renée Grouls, Toledo
Patricia Ann Haas, Lockport, NY
New Ward Harris, Moncton, Canada
Robert Scott Hood, Sandusky
Mary Kathryn Hussey, Marblehead
Christine Marie Kaduboski, Ellieville, MO
Jennifer Marie Leshnock, Columbus
Patrick James Loper, Mt. Pleasant
Jeffrey Alexander Martone, Hampton, VA
Michael John McCort, Akron
John Andrew Moody, Shelby
Brenda Jane Moore, Dublin
Scott Swanson Mounts, Westerville
Bruce Bradley Nyeorges, By Village
Terry Lee Parker, Lima
Renée Michelle Payette, Newark
Frederic John Smith, Perry
Brian Wayne Tornes, Columbus
Jonathan David Webb, Bradenton, FL
Jeffrey A. Wiater, Columbus
Eric Harlan Wilburn, Delaware
Roberto Augustin Zayas, Rio Piedras, PR

Bachelor of Science in Computer and Information Science

Larry Dawson Armstrong, Ashland
Brian James Baker, Jamestown
Christopher Scott Barnhouse, Massillon
Neal Allen Baumeier, North Canton
John Richard Bean, Columbus
James Alan Bedner, Richmond
Brian Joseph Benedict, North Olmsted
Herbert Clement Berger, Mansfield
Carol Lynne Biega, Gahanna
John D. Buchanan, Columbus
Robert Ray Calhoun, Columbus
Ho Kai Chan, Columbus
Douglas Keith Cottrill, Westerville
Chris Eric Crabbs, Shelby
Ernest R. DeGidio, Clyde
Michael David Doel, Cincinnati
Anna Don, Cleveland
Kevin Robert Dunlap, Columbus
Daniel L. Evers, St. Henry
Vincent Joseph Fabro, Columbus
Kenneth Michael France, Evansville, IN
William Allen Frey, Lyndhurst
Mark Lyle Gass, Washington Court House
Jerry Keith Geer, New Carlisle
Paul Daniel Geiser, Genoa
Kenneth John Gettren, Bowling Green
Stephen Charles Grace, Fairborn
Robert Michael Griffiths, Westerville
John Dennis Hufnagle, Columbus
Brian Evan Hughes, Tiffin
Dale Edward Jablonski, Strongsville

Bachelor of Science in Electrical Engineering

Michael Gerald Adams, West Chester
Jin Kiong Ang, Bukit Mertajam, Malaysia
Anthony Angsana, Medan, Indonesia
Markos Athineos, Lorain
Donald Augustus Baldwin, Jr., Marietta, GA
Christopher Lee Banks, New Philadelphia
Mary Carole Bartlett, Mansfield
William Shaun Bosley, Columbus
Pamela Sue Brownfield, Gahanna
Kevin Lee Burgess, Grafton
Mark Craig Campbell, Columbus
Matthew Robert Carbonara, Columbus
Christopher David Cenuca, Galena
Ernest Pei-Ching Chen, Columbus
James Roger Clark II, Centerville
Paul Thomas Codispoti, Stow
Steven MichaelConnell, Oak Harbor
Christopher Josephandon, Fairview Park
Michelle Marie Elster, Brecksville
Frederick Maurice Ervin IV, Grove City
Mohamed Reza Etefaghi, Tehran, Iran
Robert James Flaske, Stow
Thomas Alexander Fote, Dayton
Anthony John Greve, Wapakoneta
Douglas Edward Grinckemeyer, Cincinnati
Paulus Surya Gunawan, Surabaya, Indonesia
Alexander James Hadjis, Wheeling, WV
Jeffrey Scott Hagloch, Dover
Troy Lynn Hanson, Columbus
Christopher Scott Hayden, Centerville
Robert Dru Henke, Akron
Jeffrey Scott Henn, Kirtland
Bachelor of Science in Industrial and Systems Engineering

Hatta Abdul Rahim, Kuala Kangsar, Malaysia
Jeana Michele Adams, Findlay
James William Albert, Dublin
Edward Patrick Alten, Loveland
Jeffrey Floyd Basset, Dayton
Emmett Whatley Berryman, Berea
Simon Roger Bhatn, St. Charles, MO
Teck Chi Cheong, Johor, Malaysia
Shawn Allan Conrad, Columbus
Ekkai Daboul, Columbus
Randall Dean Decker, Mansfield
William Edward DeLisio, Struthers
Craig Stephen Fawcett, Beavercreek
Darrell Edward Fletcher, Brunswick
Jill Diane Freedman, Worthington
Philip Stuart Hammond, Jr., Akron
LeAnne Elizabeth Hipp, Sandusky
James Anthony Jenkins, Pittsburgh, PA
Jennifer Lynne Kago, Willard
Perry John Kallas, Gahanna
Brian Paul Koch, Strongsville
Yvette Marie Kreuz, Canton
Dawn Denise Lehman, Mt. Sterling
John David Lindberg, New Philadelphia
Melinda Sue Little, Kettering
Phillip Laine Machwart, Newark
Kaitlyn Anna Majoy, Sandusky
Keith Allen Martin, St. Clairsville
Sharon Denise Kinnell McCoy, Bedford Heights
Shaun Alan McGinnis, Tipp City
Erin Lee McGinnis, North Olmsted
Christine Ann Mitchell, Canal Winchester
Karen Streisen Mitchell, Newark
Robert Stephen Moeller, Dover
Scott Robert Moeller, Sandusky
Indrani Rastogi, Mansfield
Bandung, Indonesia
Kimberly Ann Pulfort, Dublin
Tamara Leigh Rourke, Westerville
Timothy Baker Roach, Columbus
Jolie May Robinson, Columbus
Christopher John Rockwell, Columbus
John Douglas Rudolph, Wallbridge
Kumala Budi Safina, Bandung, Indonesia
Darren E. Squires, Derby, KS
Margaret Katherine Vaxman, Strongsville
Julie Ann Verrill, Lisbon
Patrick Lawrence Wright, Westerville
William Allan Young, St. Marys

Bachelor of Science in Mechanical Engineering

Zamri Abdul Rahman, Kuala Perlis, Malaysia
Kenneth Charles Anderson, Conneaut
Roger Conant Barlow, Marion
Timothy Anson Becker, Sylvia
Steven George Bichel, Reynoldsburg
Richard Noble Bohon, Worthington
Kelly Scott Byrd, Ashville
Wadjih Chaabane, Sfax, Tunisia
Brett Andre Chardenet, Torrington, CT
Colin Ker Lin Chong, Singapore
Robert Jeffrey Clark, Norton
Carlton Walton Craig, Columbus
Matthew Warren Craig, Washington Court House
Michael F. Dagelofe, Worthington
Ned Charles Darkow, Akron
Keith Alan Davis, Lima
Gerald H. Engelmann, Grove City
Joseph Finneman, Hilliard
John Michael Geitz, Longwood, FL
Garrett McKinley Greenlee, Washington Court House
Keith Allen Gunsch, Columbus
Eric Gustin Hassenplug, Westerville
James Lee Hogan, Columbus
Stephen Harold Hueck, Columbus
Robert Charles Hughes, Westlake
Thomas Eric Koenig, Botkins
Keith B. Kreider, Chillicothe, OH
Mohammad Emad Yusuf Krimly, Riyadh, Saudi Arabia
David H. Lohmeier, Reading
Michael Scott McLeod, Solon
Donald Lee Miller, Cincinnati
Mark William Miller, East Liverpool
Jacquelyn Lee Ann Nethard, Springfield
John William Nethers H. Hopewell
Patrick John O'Niel, Akron
James Robert Petro, Youngstown
Jerald Ray Prater, Plain City
Joseph Aloysius Prebbe, Cleveland Heights
Timothy Brian Reed, Delaware
Gregory Lenard Rhoads, Waverly
Michael Carl Rizzo, Upper Arlington
Todd Eric Rook, Columbus
Roger Franklin Sanzo, Columbus
Jeffrey Mark Shea, North Ridgeville
Kevin Daniel Shinners, Paulding
Daniel Robert Smith, Ashland
Sandra Lynne Stonick, Lancaster
Daniel L. Strohm, New Washington
Kevin Allen Swank, Hilliard
Kevin Eugene Sweeney, Columbus
Phuoc Van Tran, East Liverpool
Jeffrey Craig Tufts, Gahanna
John Nicholas Vitellas, Wintersville
David Earl Viabel, Columbus
Jill Elizabeth Washock, Perrysburg
Daniel Lawrence Weckynski, Blackburg, VA
Dana Kaye Wolf, Canton
Michael Allen Wright, Mineral City

Bachelor of Science in Metallurgical Engineering

John Richard Agoston, Seven Hills
Sue Seung Sook Baik, Columbus
Stephen Thomas Bow, Westerville
Michael Craig Breslin, Richmond Heights
Thomas William Cebula, West Chester
Richard Charles Carmhausen, Canton
Andrew Wayne Gordon, Pickerington
Said Karimnmazi, Columbus
Craig Arthur Lundin, Lima
Bachelor of Science in Surveying
William Michael Clifford, Upper Arlington
Brent Cles Tucker, Grove City

Bachelor of Science in Welding Engineering
James Edward Archer, Columbus
Douglas Allen Bailey, Lawrenceville, GA
Darren Matthew Barbom, Cambridge
Michael Jude Bruktetter, Ada
Martin Louis Caruso, Baldwinsville, NY
Robert James Cook, Walbridge
Craig W. Cox, Canal Winchester
Keith Albert Dils, Avon Lake
Craig Steven Downing, Columbus Grove
David John Erbe, Avon
James Hong Fu, Columbus
Thomas James George, Tiltonville
Bruce Ian Green, Columbus
Todd Alan Hamilton, Lebanon
Evans Blair Hinshaw, Crown City
James Joseph Infield, Sugarcreek
Ronald John Jakubec, Jr., Hartford
Brian Jay King, Cincinnati
Anthony John Maghes, Cambridge
Scott C. Maitland, Euclid
Bruce Alan Milligan, Hebron
Shawn Donald Pierce, Bellevue
Stephen Joseph Roy, Acushnet, MA
William Frank Scarine III, St. Cloud, MN
John Thomas Schmitt, Delaware
Keith John Schroder, Columbus Grove
David William Smith, Gahanna
Robert Jennings Starkey III, Uhrichsville
Shaun Brian Tindall, Springfield
Michael Kenneth Warburton, Columbus
Donald F. Weaver, Jr., Westerville
David Page Workman, Mt. Vernon

School of Architecture
Bachelor of Science in Architecture
Wael Kamal Aboudiah, Almajheis, Lebanon
Kyle Arthur Aebker, Lima
Gregory Allen Anasbro, Avon Lake
Adrienne Dionne Bailey, Cleveland Heights
Mary F. Bellett, Dayton
Joseph Lawrence Bolick, Shamokin, PA
Thomas Aaron Cartwright, Wapakoneta
Whitney Bryce Cole, Marietta
Frank Charles Cozza, Guilford Lake
Bradley Louis Charles Curtis, Toledo
Carl Eric Darby, Hebron
Trent Michael DeBruin, Circleville
David John Del Tosto, Columbus
Michael Leverett Dorn, Worthington
David Dwayne Drouhard, Marshallville
Kenneth Allen Fisher, Lima
Melanie Ann George, Columbus
Bradley Stephen Gildea, Columbus
Robert Kenneth Grotsky, Pickerington
Linda Sue Guest, Freeville, NY
Blake Todd Haines, Hagerstown, MD
Randy Jay Haller, Columbus
Mary-Lynn Elizabeth Haug, Newton, NJ
Dino M. Herbert, Columbus
Stephanie L. Hough, Miami, FL
Keith H. Hunter, Bettendorf, IA
Shamsul Islam, Vienna, Austria
Ziad Salah-Eldine Kaddah, Shabnam, Lebanon
Brenton D. Kapelski, Sylvania
Ross Jay Kaplan, Fair Haven, NJ
David Michael Kuczynski, Littlestown, PA
Jeffery Thomas Kring, Massillon
Eng Siang Lim, Malaysia
Robert Thomas Long II, Reynoldsburg
Martin G. Maki, Granville
Phillip Raymond Metz, Wapakoneta
Gregory Dean Messicott, Granville
Jacqueline Antoinette Minter, Cambridge
Joseph Francis Moore, Willoughby
Jose Azael Mora, San Antonio, TX
Ernest Effen Nepomuceno, Farmington, CT
William Allen Osborne, Centerville
Joseph Daniel Parinlu, Westerville
David L. Powell, Columbus
James Andrew Price, Negley
Michael Paul Rabie, Lima
Stephen D. Rowe, Chagrin Falls
Michael Benjamin Sarka, Elyria
Brian Allan Setitz, Toledo
Thomas W. Shapaka, Wheeling, WV
Douglas Alan Shover, Knoxville, TN
Melanie Ann Smith, Richfield
Victoria Christine Snively, Lorain
Jon Bevington Stephens, Columbus
Paul James Sultiff, Stow
Maurice Scott Tedrick, Cleveleand Springs, MD
Jon Edward Wells, Anna
T. Victor Williamson, Bainbridge
Charles F. Wolfe, Toledo
Richard L. Zatta, Washington, PA

Trudy Louise Heil, McMechen, WV
Dennis L. Keeney, Thompson
Jeffrey Raymond Kerr, Hinsdale, IL
Paul Eric Lada, Columbus
Timothy Scott Lane, Youngstown
Sean Francis Layton, Whitehall
Katrina Anne Lindberg, Decatur, AL
Lisa Ellen Loevenstein, Cincinnati
Richard Joseph Miller, Wheelersburg
Jay William Mitchell, Columbus
Julianne Moskovitz, Lexington, KY
R. Jeffrey Perry, West Carrollton
Scott Jay Pirtman, Port Washington, NY
Matthew William Schultz, Oberlin
Peter Charles Sechler, Upper Arlington
James Stewart Sharn, Franklin Lakes, NJ
Douglas Lee Snyder, Lima
Mary E. Waydo, Columbus
Walter Anderson Williams, Richfield

College of Human Ecology
Dean: Lena Bailey

Bachelor of Science in Human Ecology
Kristine Marie Allen, Columbus
Renee Christine Alterre, Canfield
Debra Sue Annkeny, Dover
Amy Jo Barnes, Paulding
Charron Lea Black, Columbus
Lauren Jill Blattner, Beachwood
Cathleen Mary Brady, Columbus
Darcy Lynn Breehi, Bay Village
Melinda Priscilla Bricker, Waldo
Rebecca Lynn Brown, Sallinenge
Robbin Florence Chan, Euclid
Jennifer Mei Kuin Cheong, Pine Grove
Christine Christopher, Boardman
Linda Kay Coleman, Columbus
Kerr Jo Cook, Shady Isles
Cynthia Beth Coup, Westlake
William Henderson Crooke, Cincinnati
Dianna Lee Cryder, Cincinnati
Wendy Ellen Dibbleus, Fredericctown
Karmen Michelle Doby, Findlay
Heather Hastings Driggs, Toledo
Sara Beth Economy, Rocky River
Tamera Lynn Elliott, Bellefontaine
Stanya Michelle Ellis, Delaware
Rosemary E. Erjavec, Galena
Laura Jean Fettig, Columbus
Teresa Marie Griesemer, Columbus
Steven Philip Gutowski, Port Clinton
Andrea Michele Gutter, Columbus
Leigh Anne Haas, Marietta
Melissa Jo Harbarger, Logan
Suzanne Herrington, Ottawa
Heidi Jay Hes, Toledo
Kendra Kay Higgins, Columbus
Beverly Ann Hinton, Wellington
Bethany Renee Horn, Grove City
Brian Augustin Horvath, Westerville
Crystal Anne Hughey, Westerville
Kimberly Anne Ireton, Logan

1121
Carrie Marie Kemper, Columbus
Elizabeth Ann Koch, Columbus
Janka Kovac, Columbus
Karen Susan Kovacic, Westlake
James Francis Kuchinka, Columbus
Kimberly Blows Kwiat, Toledo
Wendy Helimann Langer, Pickerington
Theresa Marie Leugers, Cincinnati
Jennifer Laure Miller, Columbus
Jeanette Marie Janka Kovac, Columbus
James Francis Kuchinka, Columbus
Susan Danette Lewis, Dublin
Carrie Marie Kemper, Columbus
Thomas William Mahoney III, Toledo
Tsitsi E. Nyarnbuya, Columbus
Tarnyra Lorraine Lisa Ann Saggio, Steubenville
Lisa Marie Soltis, Westerville
Donalyn Marie Jodi Rachael Lowy, Beachwood
Joanne M. Marcinko, Columbus
Jane Louise Lewis, Columbus
Mary Margaret Mahan, Marengo
Kimberly Elise Kwait, Toledo
Mary Margaret Mahan, Marengo
Karen Susan Kovacic, Westlake
Jeffrey Alan Snyder, Cincinnati
Lorrie Anne Williamson, Findlay
Sandra Marie Tabor, Columbus
Caryn Leigh Vetter, Toledo
Gail McDuffie
Cynthia Renee Roebuck, Lima
Lori Ann Todd, Columbus
Diane Clair Benishecz, Poland
Marc Avery Booker, Warren
Lori Anne Black, Worthington
Sarina Tabor, Columbus
B.A. (Youngstown State University)
B.A. (Northern Michigan)
B.A. (Akron)
B.A. (Miami University)
B.A. (Xavier University)
B.A. (Ohio Northern University)
B.A. (Northwestern University)
B.A. (University of Notre Dame)
B.A. (Indiana University)
B.A. (Ohio University)
B.S. Bus. Adm.
B.A. (Mount Holyoke College)
B.A. (Youngstown State University)
B.A. (University of Dayton)
B.A. (University of Oregon)
B.S. Nursing
B.A. (Case Western Reserve University)
B.A. (Boston University)
B.S. (University of Akron)
B.A. (University of Michigan)
B.A. (University of Akron)
Bachelor of Science in Hospitality Management
Linda Carole Baxter, North Canton
Monica Rae Brevett, Shaker Heights
Robert Rockwell Chishman, Worthington
Mark Stephen Cook, Youngstown
Brian Robert Fulton, Dublin
Dawn Ellen Hartley, Cortland
Dotan Herszage, Columbus
Ray Mark Huang, Shaker Heights
Kevin Frederick Huss, Tiffin
Kevin Michael Imhof, Lorain
Stephanie Michelle Karsluk, Port Clinton
Anne Michelle Kristoff, South Euclid
Lisa Marie Minetor, Columbus
David Lee Montrose, Marengo
Jennifer Rebecca Regan, Columbus
Mark Brian Rome, Youngstown
Tracy Ellen Schmidt, Tipp City
William Francis Shockley, Cincinnati
Richard Lee Sitz, Medina
Jeffrey Alan Snyder, Cincinnati
Cheryl Lynn Stoneman, Southington
Jeffrey Alan Uhlenhake, Newark
Alan Robert Wardlow, Waynesville
Bachelor of Science in Nutrition
David Lawrence Cummins, Columbus
Weston Scott Engelbach, Powell
Stephanie Marie Fronista, Dayton
Jennifer Ann Grayzar, Reynoldsburg
Susan Lynne Harding, Mansfield
Thurer Jallili, Mansfield
Elisa W. Lee, Columbus
Malcolm Christopher MacLaren, Willoughby
Anthony Louis Schuster, Lyndhurst
Sandra Ann Shelman, Fairfield
College of Law
Dean: Francis X. Beytagh, Jr.
Juris Doctor
Mitchell Wade Allen, Morrow
B.A.
Susan Kaye Antalovich, Perry
A.B. (Cornell University)
Geoffrey William Arthur, Columbus
B.A. (Vanderbilt University)
Harry-Todd Astrov, Columbus
B.S. (Georgetown University)
Sami Nadeem Ayish, Euler
B.A. Bus. Adm.
Susan Mary Bajas, Lakewood
B.S. (West Virginia University)
Kay Ballard, Springfield
B.A. (Wright State University)
Kathryn Anne Nina Bamberger, Columbus
B.A. (University of Colorado)
Tracey Ann Barbaree, Dublin
B.A. (Vanderbilt University)
Linette Stratford Baringer, Youngstown
B.S. (Youngstown State University)
Randal Scott Baringer, Youngstown
B.S. Bus. Adm. (Youngstown State University)
David Patrick Barker, Cupahoga Falls
B.S. (University of Akron)
Michael Neil Barnett, Heath
B.A. (Fordham University)
Maryanne Becka, Willowick
B.A. (Notre Dame College)
David Smith Benice, Cincinnati
A.B. (University of Michigan)
Jordan Bennett Berns, Beachwood
A.B. (University of Michigan)
Robert Alan Bilott, Dayton
B.A. (New College of the University of South Florida)
Lori Anne Blaha, Worthington
B.A. (Miami University)
Margaret Mary Blaha, Columbus
B.A. (Xavier University)
B.S. Bus. Adm.
Diane Clair Benishecz, Poland
A.B. (Mount Holyoke College)
Marc Avery Booker, Warren
B.A.
Gail Lenora Booth, Reynoldsburg
B.A. (Ohio Dominican College)
Joy R. Bostic, Bloomington, IN
B.A. (Indiana University)
Brenda Kay Bowers, Elida
B.A. (Ohio Northern University)
Eric Steven Bravo, South Euclid
B.A. (Northwestern University)
Thomas Andrew Breitenbach, Pepper Pike
B.B.A. (University of Notre Dame)
David Allan Bressman, Norwalk
B.A. (University of Dayton)
Bryon Christopher Brittingham, Columbus
B.A. (University of Oregon)
B.S. Nursing
B.A. (Case Western Reserve University)
Drew Harrison Campbell, Columbus
B.A. (Boston University)
Gregory Electro Carr, Nashville, TN
B.S. (Tennessee State University)
Edward Jude Casias, Denver, CO
B.A. (Colorado College)
Daniel Lewis Clark, Jr., Dover
B.A. (University of Akron)
Albert Paul Cliffel III, Wadsworth
B.S.Bus.Adm.

Stephen Charles Collins, Coolville
B.A. (University of Akron)

Catherine Diane Cordial, Powell
B.A. (Denison University)

Anthony Edward Core, Rushsylvania
B.A. (Bowling Green State University)

Vincent Ruth Angela Cunningham, B.S.

Robert J. Creamer, Ridgefield, CT
B.S.Bus.Adm.

Timothy James Dawe, Lima
B.A.

Barbara Naumoff Danford, Orrville
B.A. (Wheeling College)

Christopher M. DeVito, South Bend, IN
B.B.A. (University of Notre Dame)

Marilyn Kuhl Day, Milan
B.A. (Hillsdale College)

Patrick Mark Dana Dukes, Youngstown
B.A. (Marquette University)

Melody Anne Dugic, Newton Falls
B.A. (Marquette University)

John Andrew Groeber, Columbus
B.A. (Kent State University)

Martin Stewart Griffith, Stow
B.A. (Kent State University)

John Andrew Groeber, Columbus
B.S.Bus.Adm.

Rosalyn Lynn Guy, Pittsburgh, PA
B.A. (West Virginia University)

Paul Allen Hager, Franklin
B.S.Bus.Adm. (University of Tennessee)

Richard Leo Hahn, Kent
A.B. (Princeton University)

Kimberley Rae Haines, Grove City
B.S. (Franklin University)

Sean Patrick Harter, Athens
B.B.A. (Ohio University)

Brigid Ellen Heid, Fremont
B.A.

Rajendra Anil Hengade, New Albany
B.A.

Kimberly Newsum Hix, Frazeysburg
B.S.Bus.Adm. (University of Kentucky)

William Douglas Hoffman, North Olmsted
B.A. (Miami University)

John William Hopper II, Columbus
B.A. (Mount Union College)

Randy Edward Human, Galion
B.S. (Ohio Northern University)

Renee Ann Infante, Poland
B.A. (Miami University)

Daniel Eric Izenson, Dayton
B.S. (University of Dayton)

Laurie Nizinski Jacques, Westerville
B.S. (Allegheny College)

Frank Joseph Janik III, Amherst
B.A. (Kent State University)

Jerome John Joondeph, Jr., Akron
B.S. (Miami University)

Mary Lynn Hagen, Middletown
B.S. (University of Kentucky)

Christina Marie Kuns, Waterville
B.A. (Bowling Green State University)

Peter Nelson Larson, San Francisco, CA
B.A. (University of California-Berkeley)

Deborah Ann Lee, Howell, MI
B.A. (Michigan State University)

Lynda M. Leedy, Elyria
B.S. (Miami University)

Amy Beth Leizman, Cleveland Heights
A.B. (University of Michigan)

Dean Matthew Lentzotti, Seven Hills
B.A., B.S. (University of Akron)

Charles Randolph Lepley, Columbus
B.A. (Otterbein College)

Bret Loren Limage, Columbus
B.A. (Bowling Green State University)

David Andrew List, Newark
B.A. (Wake Forest University)

Amy Louise Loch, Galion
B.S.

Robert Charles Maior, Columbus
B.A. (Saint Lawrence University); M.A.

Carolyn Kay Matheson, Broadview Heights
B.S.J. (Ohio University)

Judith Ellen McCarrick, Toledo
B.A. (University of Toledo)

Patrick Francis McCarthy, Youngstown
B.A. (Kent State University)

Robert John McClaren, Orient
B.A. (Otterbein College)

Kenneth Allen McKee, Columbus
B.S.Bus.Adm.

Daniel Yukio Mekaru, Westerville
A.B. (University of Michigan)

Todd Rhys Mendel, Shaker Heights
A.B. (University of Michigan)

Richard Charles Merrin, Findlay
B.A. (Malone College); M.B.A.

Randall William Mikes, Columbus
B.A. (Kenyon College)

Katrina Dee Miller English, Cuyahoga Falls
B.A. (Kent State University)
Kerry Lynne Morse, Marion
B.S. (Muskingum College)

Frank Forrest Munshower, Bozeman, MT
B.S. (Saint John's University)

Megan Livingston Musgrave, Delaware
B.A. (Wellesley College)

Jan Alan Neiger, Dover
B.A.

Frank Forrest Munshower, Bozeman, MT
B.A. (Wellesley College)

B.S.

Kerry Lynne Morse, Marion
B.A. (Wellesley College)

Susan Veronica Naraine, Cincinnati
B.A. of Cincinnati)

Jan Alan Neiger, Dover
B.A.

Paul Michael Nick, Cincinnati
A.B. (University of Illinois at Urbana-Champaign)

William Hurst Oldach III,
Philadelphia, PA
B.S.E.E (Lehigh University)

Traci Dee O'Neal, Columbus
B.S.Bus.Adm. (Florida A & M University)

James Joseph Padilla, Sylvania
B.A. (University of Toledo)

Todd Franklin Palmer, North Olmsted
B.A. (Miami University)

Suzanne Doris Peltier, Tipp City
B.A. (Bryn Mawr College)

Carol Helen Pelz, Shaker Heights
B.A. (Tufts University)

David Andrew Pfarrrer, Kettering
B.A.

Valerie Holmes Philbrick, Worthington
B.S. (University of Wisconsin-Madison)

Matthew John Polgar, Detroit, MI
A.B. (University of Michigan)

Dimitrios Stephan Pousoulides, Canton
B.A. (Wittenberg University)

Dennis Vernon Proctor, Wilmington, NC
A.B. (Livingstone College)

Mary Lisa Reiter, Houston, TX
B.B.A. (Texas A&M University)

David Richard Rhodehamel, Hudson
B.A.

Michael Wayne Rice, Centerburg
B.A. (Bowling Green State University)

John Ronald Richert, Brookfield
B.A. (Kent State University)

Michael Paul Richter, South Euclid
B.S.Bus.Adm.

Lisa Beth Riedesel,
Inver Grove Heights, MN
B.S.Materials Eng. (University of Minnesota)

Walter Eugene Riehemann, Upton, WY
B.A. (Chadron State College)

Debra Lee Roberts, Columbus
B.S.Bus.Adm.

Jean Rowley Robertson, Columbus
B.Art Ed.

Laura Marie Rodriguez, Toledo
B.A. (University of Toledo)

Daniel Carl Rose, Ashland
B.S.M.E.

Linda Michelle Rossie, Columbus
B.S.Bus.Adm.

Barry Allan Rothchild, Cincinnati
B.S.Bus.Adm.

Anna Marie Rouhana, Youngstown
A.B. (Youngstown State University)

Tracy L. Ruddle Webb,
South Charleston, WV
B.A. (West Virginia University)

Glenn Peter Sabine, San Diego, CA
B.A. (University of San Diego);
M.C.R.P.

Daniel Howard Sanders, Pullman, WA
B.A. (Washington State University)

Kenneth Louis Saunders, Columbus
B.S. (Wilberforce University)

Michael Andrew Schroeder, Rocky River
B.S. (Tulane University of Louisiana)

John William Seidensticker, Chillicothe
B.A. (University of Notre Dame)

Frederick A. Seward, Newark
B.A.

Beth Colville Shillington,
Broadview Heights
B.A. (Case Western Reserve University)

Larry Brian Shoemaker, Columbus
B.A. (Bowling Green State University)

Elizabeth Louise Shoman, Columbus
B.A.

Monte Glen Smith, Granville
B.A.

David Sean Soble, Southfield, MI
B.A. (Michigan State University)

Teresa Lynne Sollenberger, New Lebanon
B.A. (Baylor University)

Mark William Sotak, Rocky River
B.A. (Kent State University)

Jill Burnet Whalen, Dayton
B.S.N. (Illinois Wesleyan University);
M.S.

Daniel Solomon White, Shaker Heights
B.A. (Miami University)

Bradley Reginald Williams,
New York, NY
B.A. (Ohio University)

Glenn Lee Williams, Detroit, MI
B.A. (Howard University)

John Wood, Cleveland Heights
A.B. (John Carroll University)

Bradley Abbott Wright, Hudson
B.A. (Miami University)

James Brian Yates, Parma
B.A. (University of Dayton)

Paul Upton, Pleasant, NY
B.A.

Dr. Casey Talbott, Akron
B.A.

Terre Lynne Vandervoot, Lancaster
B.S.Bus.Adm. (Miami University)

Jana R. Vawter, Columbus
B.S.Bus.Adm.

Daniel John Veen, Kalamazoo, MI
B.A. (Calvin College)

Simina Vourlis, Wickliffe
B.A.

Michael Sissine Wantuck, Columbus
B.A.

Gloria Bowman Washington, Columbus
B.S.

Valethia Anne Watkins, Detroit, MI
A.B. (University of Michigan)

Elizabeth Jean Watters, Columbus
B.A.

Kenneth Eugene Webb, Jr., Chillicothe
B.S.Bus.Adm. (West Virginia University)

Jeffrey Scott Weisman, Solon
B.S.Bus.Adm.

Jill Burnet Whalen, Dayton
B.S.N. (Illinois Wesleyan University);
M.S.

Daniel Solomon White, Shaker Heights
B.A. (Miami University)

Bradley Reginald Williams,
New York, NY
B.A. (Ohio University)

Glenn Lee Williams, Detroit, MI
B.A. (Howard University)

John Wood, Cleveland Heights
A.B. (John Carroll University)

Bradley Abbott Wright, Hudson
B.A. (Miami University)

James Brian Yates, Parma
B.A. (University of Dayton)

Paul Upton, Pleasant, NY
B.A.

Dr. Casey Talbott, Akron
B.A.

Terre Lynne Vandervoot, Lancaster
B.S.Bus.Adm. (Miami University)

Jana R. Vawter, Columbus
B.S.Bus.Adm.

Daniel John Veen, Kalamazoo, MI
B.A. (Calvin College)

Simina Vourlis, Wickliffe
B.A.

Michael Sissine Wantuck, Columbus
B.A.

Gloria Bowman Washington, Columbus
B.S.

Valethia Anne Watkins, Detroit, MI
A.B. (University of Michigan)

Elizabeth Jean Watters, Columbus
B.A.

Kenneth Eugene Webb, Jr., Chillicothe
B.S.Bus.Adm. (West Virginia University)

Jeffrey Scott Weisman, Solon
B.S.Bus.Adm.

Jill Burnet Whalen, Dayton
B.S.N. (Illinois Wesleyan University);
M.S.

Daniel Solomon White, Shaker Heights
B.A. (Miami University)

Bradley Reginald Williams,
New York, NY
B.A. (Ohio University)

Glenn Lee Williams, Detroit, MI
B.A. (Howard University)

John Wood, Cleveland Heights
A.B. (John Carroll University)

Bradley Abbott Wright, Hudson
B.A. (Miami University)

James Brian Yates, Parma
B.A. (University of Dayton)

Paul Upton, Pleasant, NY
B.A.

College of Medicine

Dean: Manuel Tsagournis, M.D.

Doctor of Medicine

Charlotte Marie Agnone, Athens
B.S. (Ohio University)

Elizabeth Ann Altenberger, Lima
A.B. (Miami University)

Jessica Christine Arlack, Oberlin
A.B. (Brandeis University)

Lorri Yaroma Ayers, Westlake
B.A. (Miami University)
Joseph Thomas Bach, Cincinnati
B.S. (Xavier University)

Raymond Joseph Baddour, Mansfield
B.S.

Laura Marie Bailey, Parma
B.S. (John Carroll University)

Joseph Martin Baloga, Shavertown, PA
B.S. (Pennsylvania State University)

Michael Kevin Barron, Loveland
B.S.

John David Bennett, Columbus
B.A. (Hamilton College)

Scott Robert Berliner, Columbus
B.S.

Lisa Rochelle Bongaars, Cincinnati
B.A. (Wittenberg University)

Glen Gerard Borchers, Dayton
B.S. (University of Dayton)

Susan Denise Borchers, Toledo
B.S. (University of Dayton)

Lee Eric Budin, Mansfield
B.A. (Yale University)

Christina Ann Canfield, Galion
B.S. (Muskingum University)

Archibald Irwin Carson, Cincinnati
B.S., Ph.D. (University of Cincinnati)

Suniti V. Chari, Cleveland
B.A. (Smith College)

Rex Lee Cheng, Lima
B.A. (Northwestern University)

Rebecca Therese Cherry, Toledo
B.A. (Miami University)

Gregory Anthimos Christoforidis, Columbus
B.A.

Byungyol Chun, Dayton
B.S. (Wright State University)

Carol Lee Clinton, Sagamore Hills
B.S.

Lance Adam Cohen, Beachwood
A.B. (Washington University)

E. Keith Cole, Bellevue, NE
B.S. (University of Nebraska at Omaha)

Karen Kay Cole, Findlay
B.A.

Nancy Killoran Coleman, Cincinnati
B.S. (University of Cincinnati)

David Lee Conley, Wheelersburg
B.A. (Case Western Reserve University)

David John Danzeisen, Toledo
B.A. (Wittenberg University)

Steven Wesley Dibert, Urbana
B.S.

Deborah Maria Dickenson, Brooklyn, NY
B.S. (City College of New York)

Laura Lynn Donahue, Hudson, NY
B.A. (Case Western Reserve University)

Brian John Donelan, Akron
B.A. (Kent State University)

Alan Arthur Downie, Lorain
B.A. (Carleton College)

Paul C. Drago, Bronx, NY
B.S. (University of Maryland)

Timothy Alan Driscoll, Columbus
B.S.

Craig Daniel DuBois, Centerville
B.S. (University of Dayton)

James Bernard Dunnan, Youngstown
B.A. (Miami University)

Ann Elizabeth Eaton, Columbus
B.A.

Anne Jennifer Etting, Versailles
B.A. (University of Michigan)

Mimi Emig, Kingston, NY
B.A. (Wells College)

Rick Alan Fair, Granville
B.A. (Denison University)

James Joseph Fenton, Centerville
B.S. (University of Notre Dame)

David Carl Fisher, Cincinnati
B.S. (University of Cincinnati)

Gwendolyn Faye Ford, Canton
B.S. (Kentucky Wesleyan College)

George Alex Fours, Westerville
B.S. (University of Michigan)

Robin Anita Frye Fox, Carlisle
B.S. (Wright State University)

Amy Ann Frankowski, Toledo
B.S. (University of Toledo)

Paula J. Lynne Frantz, Bavaria, KS
B.A. (McPherson College)

David Ross Freeman, Toledo
B.A. (Cornell University)

Rebecca Lynn Freer, Cincinnati
B.S. (University of Wisconsin)

David Lawrence Fryman, Lima
B.A. (Spring Arbor College)

Steven Alan Galan, South Euclid
B.S.

Jeffrey Owen Galvin, Bay Village
B.A. (Miami University)

Debra A. Gamsfelder, Canton
B.S.

Joseph Arthur Gerber, Columbus
B.S.

Eric Hunter Gilbert, Dayton
B.S. (Vanderbilt University)

Joseph Michael Ginty, Sandusky
B.S.

Gayle Marietta Gordillo, Lakewood
B.A. (Stanford University)

Ann E. Gorman, Canton
B.S. (University of Akron)

John Frank Greskovich, Jr., Bainbridge
B.A. (Miami University)

William Michael Groucutt, Youngstown
B.S.

Deborah Lee Halm, Sylvania
B.S.

Susan Lynn Hammer, Roseville
B.S. (Otterbein College)

Bernard Harris, Youngstown
B.S.

James Woodrow Harris, Jr., Ozark, AL
A.S. (Enterprise State Junior College)

B.A. (Oakwood College)

Raymond Louis Hartke, Columbus
B.S. (Bowling Green State University)

Andrew Taylor Hearn, Cincinnati
B.A. (Denison University)

Emily Elizabeth Heid, Fremont
B.A.

Geri Dawn Hewitt, Toledo
B.S. (University of Michigan)

Carol June Higham, Poland
B.S. (Kent State University)

James Hochrein, Portage, PA
B.S. (Pennsylvania State University)

Kathryn Kui-Lan Holder, Kettering
B.S. (Otterbein College)

William Arthur Houser, Boardman
B.S. (University of Cincinnati)

Melvin John Huie, San Francisco, CA
A.B. (University of California-Berkeley)

Lilly Hsi-Chih Cheng Immengluck, Chicago, IL
B.A. (Northwestern University)

Naveed Hassan Ismail, Upper Arlington
B.S.

Harriet Anne Jakob, Cleveland Heights
B.A. (Case Western Reserve University)

M.S. (Cornell University)

Maria H. Javeed, Louisville, KY
B.A. (Bellarmine College)

M.S. (University of Michigan)

David Bryan Johnson, Toledo
B.A. (University of Toledo)

Jeffrey Scott Jump, Willard
B.A. (Wittenberg University)

Stephen Shukwon Jung, North Canton
B.S. (Duke University)

Steven Edward Katz, Cleveland
B.S. (Washington University)

Lisa Brandstaetter Keich, Mentor
B.A. (Bellarmine College)

Faron James Kemp, Alpena, MI
B.A. (College of Wooster)

Faron James Kemp, Alpena, MI
B.A. (Spring Arbor College)

Richard L. Kendall, Mentor
B.S. (University of Cincinnati)

Maureen Elizabeth Kennedy, Toledo
B.S. (Hillsdale College)

Paul Richard Kenworthy, East Grand Rapids, MI
B.A. (Wittenberg University)

1125
Hooman Khabiri, Columbus  
B.S.

Rafik Mounir Khalil, Akron  
B.A. (Kent State University)

Steven Howard Kimberly, Columbus  
B.A. (Miami University)

Robert Christian Klamar, Upper Arlington  
B.A. (Kenyon College)

Walter Allan Klatt, Wickliffe  
B.S. (Case Western Reserve University)

Bradley Paul Knight, Westerville  
B.S. (University of North Carolina at Chapel Hill)

Paul Andrew Koberna, Brecksville  
B.S. (Bob Jones University)

Mark William Kovach, Caldwell  
B.S., M.S.

Nicholas John Ksenich, Lorain  
B.S. (Kenyon College)

Donna Kwong, Worthington  
B.S. (Stanford University)

Steve Pai-hsun Lee, Tainan City, Taiwan, R.O.C.  
B.S. (University of California at Los Angeles)

John Michael Lepi, Wakatomiaka  
B.S.

Phillip John Lewandowski, Solon  
B.S. (University of Michigan)

Timothy Edward Lietz, Rye, NH  
B.S. (Vanderbilt University)

John Douglas Liming, Mount Orab  
B.S.

Robert Alan Little, Kettering  
B.S.

Frank E. Lorch IV, Pataskala  
B.A. (University of Notre Dame)

Lynn Ellen MacDougall, Poland  
B.S. (Youngstown State University)

Michael Alan Manbeck, New Bremen  
B.A. (Earlham College)

Mitchell Todd Massie, Ironton  
B.S.

Nicholas Paul Mastros, Steubenville  
B.S. (Bethany College)

Craig Alan McElriddy, Centerville  
B.S.

James Joseph McGovern, Columbus  
B.A. (Otterbein College)

Bonnie Lynn McNamara, Lima  
B.S.

Mark Joseph Melaragno, Columbus  
B.S.

Michael John Meleca, Batavia, NY  
B.S.

Alien Edward Meske, Oconomowoc, WI  
B.S. (University of Miami)

Christopher Scott Meyer, Huber Heights  
B.S.

Mary Ellen Meyer, Ann Arbor, MI  
B.A. (Oberlin College)

John Michael Miller, Dayton  
B.S.

Judson Severn Millhon, Columbus  
B.A. (Ohio Wesleyan University)

Donald Anthony Moffa, Jr., Solon  
B.S. (Northwestern University)

Steven Lloyd Mohler, Sunbury  
B.A. (Wittenberg University)

Evelyn Renee Mote, Laura  
B.S. (University of Toledo)

Michael James Mueller, Pittsburgh, PA  
B.S. (John Carroll University)

Margaret Ann Mulderig, Poland  
B.S. (Youngstown State University)

Victoria Marie Muholt, Rogers, AR  
B.S. (University of Arkansas)

Eric Charles Nakkim, Hana, Maui, HI  
B.A. (University of California at San Diego)

David Wayne Oates, San Diego, CA  
B.A. (University of California at Santa Barbara)

Mary Kosko Oates, Chagrin Falls  
B.S. (College of William & Mary)

Naomi Phyllis O'Grady, Sylvania  
B.S. (University of Michigan)

Jennifer Lynn Osborn, Chillicothe  
B.A. (Miami University)

David Roberto Ottolenghi, Worthington  
B.A.

Kurt James Palazzo, Cuyahoga Falls  
B.S. (University of Akron)

Janette Sue Partezana, St. Clairsville  
B.S. (Miami University)

Joseph Martin Pastor, Newbury  
B.A. (Hiram College)

Gary Scott Pearson, West Chester  
B.A. (University of California-Davis)

James Patrick Perry, Springfield  
B.A. (Miami University)

Amy Jean Pekoff, Toledo  
B.S.

Richard Allen Pica, Jr., Bellaire  
B.S.

William Doyle Pippin, Charlestown, WV  
A.A.S. (Fairmont State College);  
B.S. (West Virginia State College)

Gregg Stephen Pollander, Kinsman  
B.A. (Northwestern University)

David Jay Portman, Columbus  
B.A. (Northwestern University)

Miriam Davidson Portman, Dayton  
B.S. (University of Michigan)

Kathleen Quzally, Cleveland  
B.S. (Notre Dame College of Ohio)

David Ray Ralston, Springboro  
A.B. (Miami University)

Sumita Ram, Brecksville  
B.A. (College of Wooster)

Zhanna Rapport, Cleveland  
B.A. (Case Western Reserve University)

Mary C. Revolinsky, Elyria  
B.S. (Marquette University)

Stephen W. Rex, Columbus  
B.A. (Miami University)

Chris Allen Rhodes, Van Wert  
B.S. (University of Toledo)

Steven Grant Richardson, Columbus  
B.S. (Brigham Young University)

Mary Elizabeth Riess, Brook Park  
B.A. (Kent State University)

Thomas Roberts Riley III, Akron  
B.S.

T. Courtney Roberts, Columbus  
A.B. (Harvard University)

Fred P. Romeo, Lorain  
B.A.

Stephanie Jane Sadlon, Cleveland  
B.S. (University of Akron)

Thomas Johnston Schenk, Cincinnati  
B.A. (Kenyon College)

Harris Slavin Schild, Dayton  
B.S. (Duke University)

Jay D. Schlaifer, Columbus  
B.S.

Peter Joseph Schuler, Marion  
B.S. (University of Dayton)

Linda Ann Schultski, Wooster  
B.A. (College of Wooster)

Leslie Jon Schwindeman, Lancaster  
B.A. (Muskingum College)

Lora J. Shirley, Mentor  
B.S.

Philip Samuel Shore, Cleveland  
B.S., M.S. (Ohio University);  
Ph.D.

Jeffrey Lee Shy, Springfield  
B.A. (Wittenberg University)

Randall Scott Siegel, Westerville  
B.S. (Otterbein College)

George David Silfri, Cincinnati  
B.A. (Case Western Reserve University);  
J.D.

Mary Teresa Sivik, Parma Heights  
B.S. (John Carroll University)

Ralph Daniel Snider, Kettering  
B.S. (Andrews University)

Douglas Michael Spaeth, Cleveland Heights  
B.A. (Miami University)

Robert William Speech, Cleveland  
B.S.
Thomas F. Torres, Cleveland
Maria Liberty Troullos, St. Clairsville
Mary Margaret Turner, Mansfield
Vicki Lynn Volker, Hicksville
Kimberly Ann Walbeck, Peninsular
Diane Elizabeth Waltman, Baltic
Cynthia DeeAnn Welker, Bolivar
Ann Marie Whelan, Columbus
Elizabeth Ann Whiteley, Akron
Jon Dennis Wigglot, Columbus
Andree Kay Williams, Warren
Lisa Marie Wilson, Carroll
Melinda Alice Wolfe, Belgrade
Renee Sue Woodward, Columbus
Deanna Lynn Wyrje, New Philadelphia
Kelly Rae Yannucci, Stow
John August Zengel, Centerville

John August Zengel, Centerville
Mary Margaret Turner, Mansfield
Vicki Lynn Volkert, Baltic
Diane Elizabeth Waltman, Baltic
Cynthia DeeAnn Welker, Bolivar
Ann Marie Whelan, Columbus
Elizabeth Ann Whiteley, Akron
Jon Dennis Wigglot, Columbus
Andree Kay Williams, Warren
Lisa Marie Wilson, Carroll
Melinda Alice Wolfe, Belgrade
Renee Sue Woodward, Columbus
Deanna Lynn Wyrje, New Philadelphia
Kelly Rae Yannucci, Stow
John August Zengel, Centerville

Lisa Gayle Bibrat, Marion
Laura Kathleen Bolster, Euclid
Melinda Kay Bradford, Galloway
Cynthia Diane Britton, Sulphur Springs
Debra Sue Brown, Whitehall
Deborah Ann Brown, Canton
Marie Teresa Cottrill, Groveport
Sarsi Cruz, Lorain
Lisa Kay Daniels, Lancaster
Rene Elizabeth Daniels, Westerville
Adrienne Lynn Donaldson, Girard
Kristine Drummond, Boardman
Elizabeth Francis Duff, Parma Heights
Catherine Elizabeth Dunnan, Youngstown
Susan Diane Eckies, Washington Court House
Hope Nadine Eisen, Pepper Pike
Kathy Gabrielle Enzweiler, Cincinnati
Melissa Lynn Erney, Garfield Heights
Camille Ann Ferguson, Columbus
Christine Marie Frank, Pickerington
Jennifer Jo Glover, Columbus
Mary Greenlee, Johnstown
Lisa Marie Griffith, Westerville
Evelyn Pauline Gruber, Columbus
Anne Reid Haley, Canton
Constance Rae Harris, Grove City
Denise Beda Harton, Cleveland
Jodi Ann Harvey, Lucas
Kelly Marie Heitmeier, Ottawa
Julie Ann Hemsley, Fairborn
Suzanne Marie Hofstetter, Canton
Karla Kay Hutchens, Middletown
Randy Ketich Ingrime, Columbus
Angelica Lee Iriarte, New Paris
Andrea Karas, Stratford
Saundra Jo Keith, Mansfield
Tammy Renee Kill, Spencerville
Steven Joseph Kuhlman, Ottawa
Mary Katherine Kuns, Lorain
Joyce N. Larrabee, Columbus
Gary Visperas Laughlin, Mayfield Heights
Nancy Elaine Leech, Mansfield
Karen Sue Lehan, Grove City
Laurie Ann LeMaster, Powell
Carol Susan Lieb, Columbus
Kimberly Anne Liebherr, Perrysburg
Kathleen Sue Long, Pandora
David Nathan Looper-Friedman, Bexley
Kathleen Marie Lynch, Dayton
Christopher James Mancini, Cincinnati
Christina Ann Matthews, Columbus
Jayme Littleton Matulevich, Sabina
Elizabeth Maxwell, Westerville
Kelly Denise McGillivray, Springfield
Patricia Ann McGtaggart, State College, PA
Julie Rochelle Miller, North Canton
Rebecca Jean Moffit, Athens
Jennifer Lee Mounts, Ashland
Laurie Renee Myers, Galloway
Carolyne Neuman, Sandusky
Jill Emma Neuenschwander, Wauseon
Fumela Kay Niece, Ottawa
Nancy Lynn Oberer, North Olmsted
Lisa LaDonna Odon, Mansfield
Suzanne Marie Pecce, Plain City
Jill Christine Palazzo, Lorain
Jennifer Lee Parsons, Worthington
Linda Geralyn Pinzone, Solon
Rebecca Sue Pitock, Granville
Jennifer Kay Pollock, Columbus
Beth Ann Rakoslaw, Ontario
Lisa Anne Rapp, Columbus
Mary Ellen Rausch, Columbus
Suzanne Marie Reese, Akton
Julie Ellen Robb, Granville
Michele Christine Robinson, South Point
Lisa Marie Rohrig, Springfield
Kristine Ann Schaffer, Lucas
Jeanette Marie Sciarrotta, Amherst
Joy Marie Sedlock, Garfield Heights
Marcia Janet Staszka, Grafton
Kathleen Marie Shingier, Delta
Sherri Ann Sneed, Grove City
Andres Mary Spendiadis, Willoughby Hills
Tammy Jo Stouge, Columbus
Caryl Lynn St. Clair, Eastlake
Deanna Lee Stillman, Fairview Park
Susan Anne Sullivan, Kettering
Susan Elizabeth Sullivan, Columbus
Sharlene Alane Summers, Huntsville, AL
Deborah Lynne Taylor, Milford
Stephanie Jill Tannent, Bellefontaine
Steven John Theobares, Mansfield
Cynthia Lee Thill, Columbus
Tammy Lynn Wallick, Dover
Michele Renee Wanat, Millersburg
Susan M. Wank, Leipsic
Angela Ruth Weber, Hilliard
Sue Alice Wehrrouch, Woodsville
Kathleen Marie Werling, Vandalia
Karen Kathleen White, Whitehall
Kathleen Leigh White, Columbus
Stephanie Diane Wiener, Cleveland
Kimberly Jean Wiesmeyer, Oxford
Shauna Marlene Williams, Youngstown
Mary Lynne Winningham, Columbus
John Donald Wollford, Columbus
Estel Jane Wujick, Newton Falls
Michelle Zeilina, Campbell

College of Optometry
Dean: Richard M. Hill

Bachelor of Science in Nursing
Mary Kathleen Ahern, Springfield
Angela Sue Albaugh, Canton
Ann P. Aldana, Brecksville
Tonja Ann Azadpour, Columbus
Stacey Lynn Balocco, Yorkville
Kimberly Shawn Bankes, Lancaster
Denise Hursey Barton, Gahanna
Cynthia Suzanne Baumann, Dublin
Cheryl Grace Baxter, Hilliard
Cynthia Vee Beck, Mansfield
Arturo DeLano Beckles, Panama, Panama

Monica Gayle Bibrat, Marion
Laura Kathleen Bolster, Euclid
Melinda Kay Bradford, Galloway
Cynthia Diane Britton, Sulphur Springs
Debra Sue Brown, Whitehall
Deborah Ann Brown, Canton
Marie Teresa Cottrill, Groveport
Sarsi Cruz, Lorain
Lisa Kay Daniels, Lancaster
Rene Elizabeth Daniels, Westerville
Adrienne Lynn Donaldson, Girard
Kristine Drummond, Boardman
Elizabeth Francis Duff, Parma Heights
Catherine Elizabeth Dunnan, Youngstown
Susan Diane Eckies, Washington Court House
Hope Nadine Eisen, Pepper Pike
Kathy Gabrielle Enzweiler, Cincinnati
Melissa Lynn Erney, Garfield Heights
Camille Ann Ferguson, Columbus
Christine Marie Frank, Pickerington
Jennifer Jo Glover, Columbus
Mary Greenlee, Johnstown
Lisa Marie Griffith, Westerville
Evelyn Pauline Gruber, Columbus
Anne Reid Haley, Canton
Constance Rae Harris, Grove City
Denise Beda Harton, Cleveland
Jodi Ann Harvey, Lucas
Kelly Marie Heitmeier, Ottawa
Julie Ann Hemsley, Fairborn
Suzanne Marie Hofstetter, Canton
Karla Kay Hutchens, Middletown
Randy Ketich Ingrime, Columbus
Angelica Lee Iriarte, New Paris
Andrea Karas, Stratford
Saundra Jo Keith, Mansfield
Tammy Renee Kill, Spencerville
Steven Joseph Kuhlman, Ottawa
Mary Katherine Kuns, Lorain
Joyce N. Larrabee, Columbus
Gary Visperas Laughlin, Mayfield Heights
Nancy Elaine Leech, Mansfield
Karen Sue Lehan, Grove City
Laurie Ann LeMaster, Powell
Carol Susan Lieb, Columbus
Kimberly Anne Liebherr, Perrysburg
Kathleen Sue Long, Pandora
David Nathan Looper-Friedman, Bexley
Kathleen Marie Lynch, Dayton
Christopher James Mancini, Cincinnati
Christina Ann Matthews, Columbus
Jayme Littleton Matulevich, Sabina
Elizabeth Maxwell, Westerville
Kelly Denise McGillivray, Springfield
Patricia Ann McGtaggart, State College, PA
Julie Rochelle Miller, North Canton
Rebecca Jean Moffit, Athens
Jennifer Lee Mounts, Ashland
Laurie Renee Myers, Galloway
Carolyne Neuman, Sandusky
Jill Emma Neuenschwander, Wauseon
Fumela Kay Niece, Ottawa
Nancy Lynn Oberer, North Olmsted
Lisa LaDonna Odon, Mansfield
Suzanne Marie Pecce, Plain City
Jill Christine Palazzo, Lorain
Jennifer Lee Parsons, Worthington
Linda Geralyn Pinzone, Solon
Rebecca Sue Pitock, Granville
Jennifer Kay Pollock, Columbus
Beth Ann Rakoslaw, Ontario
Lisa Anne Rapp, Columbus
Mary Ellen Rausch, Columbus
Suzanne Marie Reese, Akton
Julie Ellen Robb, Granville
Michele Christine Robinson, South Point
Lisa Marie Rohrig, Springfield
Kristine Ann Schaffer, Lucas
Jeanette Marie Sciarrotta, Amherst
Joy Marie Sedlock, Garfield Heights
Marcia Janet Staszka, Grafton
Kathleen Marie Shingier, Delta
Sherri Ann Sneed, Grove City
Andres Mary Spendiadis, Willoughby Hills
Tammy Jo Stouge, Columbus
Caryl Lynn St. Clair, Eastlake
Deanna Lee Stillman, Fairview Park
Susan Anne Sullivan, Kettering
Susan Elizabeth Sullivan, Columbus
Sharlene Alane Summers, Huntsville, AL
Deborah Lynne Taylor, Milford
Stephanie Jill Tannent, Bellefontaine
Steven John Theobares, Mansfield
Cynthia Lee Thill, Columbus
Tammy Lynn Wallick, Dover
Michele Renee Wanat, Millersburg
Susan M. Wank, Leipsic
Angela Ruth Weber, Hilliard
Sue Alice Wehrrouch, Woodsville
Kathleen Marie Werling, Vandalia
Karen Kathleen White, Whitehall
Kathleen Leigh White, Columbus
Stephanie Diane Wiener, Cleveland
Kimberly Jean Wiesmeyer, Oxford
Shauna Marlene Williams, Youngstown
Mary Lynne Winningham, Columbus
John Donald Wollford, Columbus
Estel Jane Wujick, Newton Falls
Michelle Zeilina, Campbell

College of Optometry
Dean: Richard M. Hill

Doctor of Optometry
Carmela Abraham, Boardman
B.S. (Youngstown State University)
Daniel James Bayliss, Cincinnati
B.A. (Earlham College)
Brian Eugene Bleiler, Odessa, NY
B.S. (State University of New York at Albany)
Jeffrey Heath Blunden, Columbus
Elva Marie Bowman, Harrisonburg, VA
B.A. (Cedarville College)
Jil lyn Fillers Brunner, Arcanum
B.S.: (Virginia Polytechnic Institute and State University)
Lori Denise Nichols, Columbus
B.S.: (Indiana University)
Mark James Petrykowski, Grafton
B.A.: Joseph Albert Ravagnani, Uniontown
B.A.: Robert Ellsworth Reid, Brookfield
B.S.: Cheryl Strickling Ricer, Woodsfield
B.S.: Michelle Marie Rook, Wellington
B.S.: (Kent State University)
Jodi Lynn Rowson, Portsmouth
Scott Eliot Sanzotta, Geneva
B.S.: (Westminster College)
Stephen Edward Schnulo, Columbus
Terry Lee Schultz, Lancaster
Joseph Denver Schwallie, Jr., Union
Timothy Glenn Spence, Pittsburgh, PA
Melissa Ann Tobias, Columbus
B.S.: Robert Martin Wagner, Dublin
William Robert Waldron, Windsor, NY
B.A., M.S.: (University of Rochester)
Jonathan Leslie Warner, St. Marys
B.A.: (Miami University);
B.S.: Craig Stephen Wolf, Cuyahoga Falls
B.A. (College of Wooster)

College of Pharmacy
Dean: John M. Cassidy

Bachelor of Science in Pharmacy
Feda Hassan Aboumen, Cleveland
Leigh Ann Annis, Lucasville
Julie Anne Ashcraft, Kent
Christine Renee Ball, Cuyahoga Falls
Kelley Lynn Barnett, West Jefferson
William Miller Brown, Lima
James Alan Deters, Lima
Jeffrey David Engle, Columbus
Simpson Foo, Los Angeles, CA
Heidi Louise Fross, Mentor
Charles Shively Gould, Akron
William James Hahn, Perry
Charles John Harcha, Portsmouth
Michael D. Harrington, Cincinnati
Kristin Jill Haydock, North Bend
Jocelyn Regina Hayes, Highland Park, IL
Barry Joseph Helms, Tiltonsville
Ronald Steven Holzapfel, Greenville
Julie Marie Huffman, St. Albans, WV
Vicky Sue Happ, Newark

College of Social Work
Dean: Richard E. Boettcher

Bachelor of Science in Social Work
Kimberlee Ann Bauer, Powell
Stephanie Lynn Bean, Columbus
Sheila Marie Bowling, Marion
Leisa Beth Clem, Columbus
Daniel Mitchel Cohn, Pepper Pike
Tammy Savanna Constant, Columbus
Jacquelyn Cotton, Cleveland
Erica Lynne Davis, Cleveland
Shawn Lesley Davis, Pataskala
Rosalie Robert Dougherty, Columbus
Jennifer Ann Dufty, Port Clinton
Mindy Kay Dunkle, Columbus
Sharon Gay Eden, Gahanna
Benjamin Ralph Edwards, Columbus
Shirley Ann Enderle, Columbus
Lawrence Endicott, Columbus
Christina Beryl Falkener, Minneapolis, MN
Lisa Beth Fleming, Canton
Monica Dionne Ferguson, Fostoria
Karik A. Garbe, Columbus
Julia Ann Gray, Raleigh, NC
Joseph Tillford-Lee Greene, Dayton
Brenda Kay Griffith, Prospect
Patricia Ann Griffith, Circleville
Melinda Ann Grote, Columbus
Martin Francis Hamm, South Euclid
Alison Leigh Hamrick, Columbus
Holly Elizabeth Harris, Mt. Gilead
Sherri Lynn Hess, Fairlawn
Holly Ann Hobzcek, North Royalton
Michele Carmela Horek, Worthington
Emory Jay Kennedy, Jacksontown
Melinda Ann Grote, Columbus
Patricia Ann Griffith, Circleville
Alison Leigh Hamrick, Columbus
Susan Maria McVey, Clarksville
Christine Maree Philips, Hamilton
Toni Marie Spetrino, Chesterland
Thomas Robert Peters, Columbus
Gil Louise Taylor, Columbus
Christine Maree Phillips, Hamilton
Kathleen Louise Pierce, M. Gilead
Rose Lorraine Powes, Delaware
Lisa Anne Rowekamp, Wooster
Melanie Rose Rubin, Shaker Heights
Theresa Saada Rushay, Columbus
Debra Ellen Sapp, Darwell
Robert Marilla Scott, Columbus
Joyce Ann Seaburn, M. Gilead
Melissa Frances Sherman, Mentor
Darla Ann Short, Troy
Julianne Renee Smek-Miller, Baltimore
Tracie Lynn Smith, Lewisburg
Toni Marie Sperino, Chesterland
Lisa Colleen Spivey, Columbus
Alicia Rene Sullivan, Columbus
Christina Sue Taftman, Columbus
Donna Lee Taube, Marion
Gil Louise Taylor, Columbus
Nancy Anne Thomas, Newark
Tracey Michael Trippett, Darbydale
Karen Susan Umbarger, Mansfield
Stacey Jo Vetter, Wapakoneta
Cynthia S. Warthen, Newark
Jennifer Lynn Weber, Springfield
Jill Robin Weisman, Columbus
Leanne Leslie Wonders, Toledo
Elizabeth Ann Zepernick, Tipp City

College of Veterinary Medicine

Dean: Ronald A. Wright

Doctor of Veterinary Medicine

Michelle Louise Amtower, Keyser, WV
B.S. (West Virginia University)

Valerie Jo Anderson, Jackson
B.A. (Findlay College)

Kim Lynn Ankenbauer, Cincinnati
B.S. (Indiana State University)

Kristen Lynn Bailey, Fairborn
B.S. (Wright State University)

Scott William Barnard, Canton
B.S.

Maria Lorine Beck, Creighton, NE
B.S. (University of Nebraska-Lincoln)

Karol Rae Bee-Bentley, Columbus
B.S. (Iowa State University)

Michael Steven Bloter, Cincinnati
B.S. (Brigham Young University)

Ruth Amelia Boll, Wheelersburg
B.S. (Ashland College)

Kathleen Marie Booth, Moundsville, WV
B.S. (West Virginia University)

Wendy Lee Brann, Hiram
B.A. (Hiram College)

Stephanie Marie Bretlin, Centerville
B.S.

Corrine S. Brown, Leigh, NE
B.S. (University of Nebraska-Lincoln)

David Lee Brown, Bloomington
Rebecca Bock Burkett, Cincinnati
B.A. (Wittenberg University)

Susan Jane Burkhart, Galion
B.S. (Bowling Green State University)

James Alfred Burns, Rocky River
B.A. (Miami University)

Joanne Butzberger, Franklinton, NC
B.A. (Miami University)

Elizabeth Ann Chabara, Paramus, NJ
B.S. (University of Delaware)

Susan Kay Clark, Oberlin
B.S. (Ashland College)

Marybeth Cline, Monongahela, PA
B.A. (Hiram College)

Leslie Ann Cook, North Canton
Diane Sue Cummns, Cincinnati
B.S. (University of Cincinnati)

Elizabeth Ann Daniel
Shenandoah Junction, WV
B.S. (West Virginia University)

Joy Arlene Davidson, Quincy
B.S. Agr.

Lisa Ann Denby, Grafton
B.A. (Miami University)

Ann Marie DiFrancesco, Brattleboro
B.S.

Ann Elizabeth Fassn, Lancaster
Janice Kathleen Evans, Gallipolis
B.S.Agr.

William Paul Farrar, Northfield
B.A. (Ohio Wesleyan University):
M.S.

Robert Scott Gershkowitz, Aberdeen, NJ
B.S. (Rutgers University)

John Michael Gnatowski,
Brooklyn Heights
B.S.Phar.

Carrie Anne Griffith, Shaker Heights
B.S., B.S. (University of Kentucky)

Stacy Lynn Hallabrin, Lexington
B.A. (Findlay College)

Edward John Hamer, Yerington, NV
B.S. (University of Nevada-Reno)

Karen Leah Hamilton, Severna Park, MD
B.S. (University of Maryland)

Nancy Ann Hankins, South Euclid
B.S. Nat.Res.

Johanna Ruth Hansen-Neff, Honolulu, HI
B.A. (Earlham College)

Susan Beth Hardiman, Silver Spring, MD
B.S. (University of Maryland)

Patricia Sue Harrold, Heath
B.S. (Mount Union College)

Karen Patricia Henning-Miller, Plattsburgh, NE

Julie Ann Hockman, Columbus
B.A. (Miami University)

James John Honeford, Coldwater
B.S. Agr.

Alien Reed Hughes, Hamilton
B.A. (Miami University)

Herbert Allen Hulls, Lower Salem
Keith Edward Huston, Richmond Heights
B.S. (Heidelberg College)

Stephen Joseph Kerpsack, Canfield
Karen Maxine Knabel, Bainbridge
B.S. Agr.

John William Knox, Fostoria
B.S. (Bowling Green State University)

Nicholas James Kohut, Boyertown, PA
B.S. Agr.

Daniel Gerad Korow, Akron
B.S. (University of Akron)

Debra Lynn Kulikinski, Madison
B.S. Agr.

Mark Steven Kurtzman, Bellbrook
B.S. (Heidelberg College)

Cynthia K. Lightner, Maxwelton, WV
B.S. (Virginia Polytechnic Institute and State University)

Carolyn Purvis Lincoln, Shaker Heights
B.S. Nat.Res.

James Edward Lofgren, Louisville
Carmen Luise Lucena-Shaw, Guaynabo, PR
B.S. (Pennsylvania State University)

Ann L. Manharth, Milford

Dawn Lavelle Martin, Clarion, PA
B.S. (Pennsylvania State University)

Warren Guy Maurer, Toledo
B.S. (Cornell University)

Mark Joseph McCluskey, Cahana

Marilyn Marie McCrae, Barberton
B.S. (Purdue University)

Kittsen Dee McCumber, Columbus
B.S. Agr.
Arthur Samuel McMillan, Jr., Warsaw
B.S.Agr., M.S.

Jill Howells McNicol, Salem
B.S. (Muskingum College)

Linda Jean Mecklenburg, Rockville, MD
B.S. (University of Maryland)

Mary C. Menard, Deerfield, NH
B.A. (Middlebury College)

Susan Hope Mercer, Hollis, NH
B.S. (University of New Hampshire); M.S. (Texas A & M University)

Regina Marie Michels, Cincinnati
B.S. (University of Cincinnati)

Suzanne B. Miller-Hogue, Tallmadge

Joanne Reed, Waterville

Jane Zinni, Rayland

Sharon Elizabeth Heinrich

With Distinction in Physics

Graduates with Honors

Criteria for graduating with honors are as follows:

**Summa Cum Laude** designates those graduating in the top 3% of the class.

**Cum Laude** designates those graduating in the top 10% of the class.

**With Distinction** requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

**With Honors in the Liberal Arts** requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

**With University Honors** designates those graduating with curricular distinction and dedication to high educational goals.

**Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Anthropology**

Kathryn Joanna Saul

**Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Chemistry**

Toshihiko Takeuchi

**Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Economics**

Kent Andrew Smetters

**Summa Cum Laude with Honors in the Liberal Arts and with Distinction in English**

Darcy Ann Dreher

**Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Linguistics**

Maria Gabrielle Swora

**Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics and with Distinction in Physics**

Daniel Dynin
Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics
Mark Christopher Haase

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Molecular Genetics
Svetlana Sonia Shstrom

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Neuroscience
Richard James White III

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Political Science
Alan Howard Abes
Michael Xavier Imbroscio

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Psychology
Farul Kirit Kapadia
Natalie Kay Wolfe

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Speech and Hearing Science
Kim Elaine Birkenmeier

Summa Cum Laude with Distinction and Honors in Pharmacy
Charlotte Anne Kenreigh

Summa Cum Laude with Distinction in Accounting
Lawrence Ian Shagrin
Steven Tao-Heng Sung

Summa Cum Laude with Distinction in Architecture
Jon Bevington Stephens

Summa Cum Laude with Distinction in Chemistry
Jeffrey Joseph Rohde
Erich Jürgen Schwartz

Summa Cum Laude with Distinction in Civil Engineering
Joel Ward Harris

Summa Cum Laude with Distinction in Electrical Engineering
Alfonso DiBianco Lunardhi
Edward Lee Riegelsberger

Summa Cum Laude with Distinction in English Education
Cynthia Lynn Light

Summa Cum Laude with Distinction in French Education and Teaching English to Speakers of Other Languages
Debra Lynn Johnson

Summa Cum Laude with Distinction in Geology
Connie Marie Safreed
Christopher Howard Swartz

Summa Cum Laude with Distinction in Human Nutrition and Food Management
Kimberly Anne Ireton

Summa Cum Laude with Distinction in International Studies
Edward Lyle Merta

Summa Cum Laude with Distinction in Nutrition
David Lawrence Cummin
Susan Lynne Harding

Summa Cum Laude with Distinction in Psychology
Lovinia Marguerite Plimpton
Shani Beth Topolosky

Summa Cum Laude with Distinction in Zoology
Kiran Tipirneni

Summa Cum Laude with Honors in the Liberal Arts
Michael Charles Biewer
Juanita Irene Bixel
Christine Lucille Burkamp
Katherine Jean Carpenter
Steven Charles Coffin
Diane Lynn Fletcher
Claire Ripley Fried
Melaney Anne Fullerton
Kathleen Elizabeth Green
David Scott Hogsett
Robert Gerard Hunt
Lynn Marie Kries
Jessica Lynn Montgomery
Kevin Dwayne Morris
Roy Lee Nalazek
Ronnie Kay Owens
Andrea Maerie Page
Anejaette C. Rose
Karla Christine Salmon
Matthew Thomas Schuler
Andrea Lynn Thomas
Barbara Michelle Underwood
Rebecca Anne Wetmore

Summa Cum Laude

Nanette Rea Adams
Julia Ann Almendinger
Anthony Angaza
Allen Francis Bach
Christine Renee Ball
Ellen Myers Bargar
William Roy Baumel
Marcus James Bishop
Alison Traci Blank
Debra Sue Brown
Gary Cameron Brown
Kevin Lee Burgess
Ewa Teresa Byczek
Matthew Robert Carbonara
Spero R. Cataland
Lois Kay Clouse
Shawn Allan Conrad
David William Cook
Cathila Creviston
Michael David Doel
Jacqueline Dusey
Susan Denise Eddles
Kari Anne Erelwine
Christina Beryl Falkener
Pamela Lynn Finchum
Kelli Faith Flomman
Robin Anita Fox
Michelle Lee Galyk
Ann Margaret Gano
Diane Carol Gergel
Susanne Elaine Good
Robert Michael Griffiths
Michelle Suzanne Gross
Michael Wayne Grove
Susan Seleste Hartsel
Wesley Darrel Helmuth
Susanne Sulphen Herb
Leanne Elizabeth Hipp
Jean Marie Hoffer
Gary Scott Hufford
Edward L. Johns
Jason Herrin Jones
Hani Kamhawi
Deborah Anne Keenehan
Stephen Joseph Kerpsack
Bradley Paul Knight
Mark David Kunka
Robert Edward Lancia II
Marjorie Robin Landever
Joyce Larabee
Douglas Patrick Lawler
Gina Kaye Lehr
Anne Margaret Letherby
Marsha Ann Levering
Alfonsus Dibianto Lunardhi
Scott Lincoln Marzah
Jeffrey Alexander Martone
Frances Kay Maurer
Jo Ann Maynard
Catherine Michelle McPherson
Linda Jean Mecklenburg
Lynn Marie Meier
Adrenne Lisa Meiring
Sandra Hahn Mentzer
Laura Jean Mobley
Brenda Jane Moore
Ai Chen Ng
Lisa Michelle Novack
David Wayne Oates
Craig Daniel Oiler
Beatrice Mary Pauley
Patrick David Pauken
Linda Rose Peck
Paul Richard Peck
Heather May Peterman
Michelle Lynn Pettit
Kathleen Louise Pierce
James Colbert Plichebaum
Maria Elena Pontones
David Joel Porter
Kim Elaine Potts
James Christopher Quinlivan
Susan Renee Raber
Suzanne Marie Reese
John Christopher Riegel
Heather Elaine Rittenhouse
Robert J. Rizzato
Kelly Patricia Ross
Roger Brian Scherer
Tracy Sue Schnell
Laura Susan Schubach
Linda Ann Schulski
Brenda Sue Schwartz
Karen Lynne Scott
Walter D. Scully
Marla Dawn Seneidak
Wendy Noel Showak
Heidi Hottinger Slmer
Halli Lyn Snell
Joseph Harold Snyder
Robert William Speich
Regina Marie Strauch
Jerry Rudolph Thomas II
Dain Michelle Thompson
Paul Anthony Toplek
Carol Elaine Trimble
Russe B. Walcher
Tracy Anne Warren
Mary Elizabeth Waydo
Timothy Paul Wessel
Rhonda J. Wharton
Jody Keith Wilson
Linda Ellen Wilson
David Stuart Winakor
Kenneth Neal Winkler
Craig Stephen Wolf
Marcy Lynn Wolfe
Melissa Justine Wolfe
Polly Sue Woods
Kim Lee Yap
Brian Kurt Zinser
C. Roger Zody II
Linda Marie Zofchak

Cum Laude with Honors in the
Liberal Arts and with Distinction in
Ancient History and Classics
Susan Michelle Carroll

Cum Laude with Honors in the
Liberal Arts and with Distinction in
Biography
Holly Ann Gerzina

Cum Laude with Honors in the
Liberal Arts and with Distinction in
Chemistry
Thomas Adam Kolaja

Cum Laude with Honors in the
Liberal Arts and with Distinction in
French
Peter Emmanuel Makari

Cum Laude with Honors in the
Liberal Arts and with Distinction in
Neuroscience
Jason Alexander Peck

Cum Laude with Honors in the
Liberal Arts and with Distinction in
Political Science
Paulette Renee Fouts
Joseph Peter Koncelik

Cum Laude with Honors in the
Liberal Arts and with Distinction in
Psychology
Lee Ann Holley

Cum Laude with Distinction and
Honors in Pharmacy
Michael Dennis Harrington

Cum Laude with Distinction in
Animal Science
John Orlo Jones
Steven Richard Wilden

Cum Laude with Distinction in
Architecture
Paul James Sutliff

Cum Laude with Distinction in
Art Education
Shari L. Savage

Cum Laude with Distinction in
Ceramic Engineering
Daniel Clark Anderson

Cum Laude with Distinction in
Chemistry
Charles Henry Martin

Cum Laude with Distinction in
Civil Engineering
Christine Marie Kaduboski

Cum Laude with Distinction in
Computer and Information Science
William Allen Frey

Cum Laude with Distinction in
Exercise Physiology
Shanna Lynne McHugh

Cum Laude with Distinction in
Family Relations and Human
Development
Elizabeth Ann Koch
Cum Laude with Distinction in Food Science and Nutrition
William Hubert Ayars, Jr.

Cum Laude with Distinction in Geology
John Reeder Bargar

Cum Laude with Distinction in Human Nutrition and Food Management
Jennifer Mei Kuin Cheong

Cum Laude with Distinction in Mechanical Engineering
Roger Conant Barlow

Cum Laude with Distinction in Molecular Genetics
David Thomas Shima

Cum Laude with Distinction in Natural Resources Development
Edythe Mae Seehafer

Cum Laude with Distinction in Nutrition
Jennifer Ann Grayzar

Cum Laude with Distinction in Psychology
Kirstin Michelle Bryan
Tricia Lyn Murphy
Ruth Ann Weber

Cum Laude with Distinction in Radiologic Technology
Vicky Ann Davis

Cum Laude with Distinction in Visual Communication Design
Kara Marie Lyon

Cum Laude with Distinction in Wildlife Management
Pamela Claar

Cum Laude with Honors in the Liberal Arts
Nancy Louise Breen
Stephanie Carol Burley
Carol Joostine Carson
Kirstin Lee Fenelli
Kimberly Ann Flynn
Nancy Sue Hubbard
Kathleen Anne Johnson
Mary Chi-Whi Kim
Thomas Adam Kolaja
Ronee Fay Korbin
Linette Michelle Nadir
Victor James Perotti
Radha Pysti
Miles Eugene Russell
Troy A. Smith
Timothy Charles Thompson
Ann Marie Todd
Julie Carole Vieson

Cum Laude with University Honors
Lorinda Tomlinson Barnard
Brant Eric Enderle
Joanie L. Goldberg
Jeffrey Scott Henn
Donald Andrew Hoying
Juanita Yvonne Jackson
Jennifer Lauren Kent
Tans Gregory Olenchuk
Paul Richard Peck
Joan Marie Pero
Claudia Annette Profenna
Claudia Helen Repasky
Rajib Narayan Roychoudhury
James Henry Sawyer
Michelle Marie Schulte
Michael Richard Sivula
Deborah Lynn Wilson

With Honors in the Liberal Arts and with Distinction in Botany
Amy Michelle Kryder

With Honors in the Liberal Arts and with Distinction in Chemistry
Carrie Kim Stroud

With Honors in the Liberal Arts and with Distinction in Modern German History
Elizabeth Aston Mily

With Honors in the Liberal Arts and with Distinction in Psychology
Steven Vincent Savage

With Distinction in Agricultural Economics
Jill Marie Tinker

With Distinction in Biochemistry
Jill Marie Haunhorst

With Distinction in Chemistry
Brian Allan Siesel

With Distinction in Chemistry Education
Sarah F. Driscoll

With Distinction in Elementary Education
Kathleen Annette Zutell

With Distinction in Engineering Physics
Kimberly Anne Ciula

With Distinction in Fisheries Management
Frank Adam Krawczyk

With Distinction in History
Caren Ferree Calendine
Lisa Jill Schwartz

With Distinction in Mechanical Engineering
Todd Eric Rook
Phuong Vang Tran
Jeffrey Craig Tufts
Daniel Lawrence Wieczynski

With Distinction in Natural Resources Development
Amanda Bost Austin

With Distinction in Nutrition
Elisa W. Lee
With Distinction in Psychology
Denise Diane Shondrick

With Distinction in Special Education
Constance Pellegrino Cashman
Theresa Metter Lingenfelter

With Distinction in Textiles and Clothing
Laura Jean Fettig

With Honors in the Liberal Arts
Eric Jonathan Arnold
Olivia Ting-Ting Chu
Timothy Patrick Clarke
Julie Ann Dailey
Renee Drury
Lisa Marie Estere
Christian Lynn Ford
Kfi Zeba Haque
John Stephen Regas
Robert Jirou Chestnut
Lissette Salazar

Cum Laude
Kim Danielle Allen
Heidi Anderson
Kenneth Lee Anderton
Stasia Ann Antalis
Alan Marc Aronowitz
Joelle Re Arp
Charles Wayne Ash
M. Jane Ashby
John Peter Aslan
Brian James Baker
Gail Lynn Baker
Kimberly Shawn Bankes
Ellen Myers Bargar
Krista Lynn Barnett-Beck
Stephanie Lynn Bean
Beatrice Lilly Belcher
Belinda S. Beireis
Traci Bernabale
Tracy Ann Bernens
Doris Eileen Bernhardt
Emily Kathryn Berry
Humor Kay Berry
Emmett Whaley Berryman
Brian Anthony Billett
Anthony Edward Bisconti
Lori Ellen Blanchong
Bradford J. Blecha
Ruth Amelia Bell
Karen Rosanne Bonfiglio
Gregory Steven Bonnell-Kangas
Michael Roy Boone
Angela Marie Bornhorst
Sheila Marie Bowling
Melinda Kay Bradford
Deolores Michele Bradley-Houston
Maria T. Brennen
Cynthia R. Brock
Jula BeRae Brown
Renee J. Brown
Troy Dean Brown
Pamela Sue Brownfield
Barbara Swan Browning
Curtis Lee Buchheit
Kari Lynn Bucklan
Rebecca Bock Burket
James Alfred Burns
Diana L. Castrodale
Wajdi Chabane
Elizabeth Ann Chabara
Christine Chen
Julie Lynn Chesonis
Marc Alan Christman
Lisa Marie Ciccarelli
Joseph Harold Cieslak
Jeffrey Alan Clem
Carol Lee Clinton
Nancy June Conway
Ralph Cordero
Kane June Davison
Kristen Jane Davidson
Mary Coxy Davis
January Elizabeth Dean
Kelli Leigh Decker
Cynthia June Dejacimo
Randy Lee Delpson
Michelle Renee Dennie
Michael Leverett Dorn
Rosemarie Dougherty
Alan Arthur Downie
Steven Michael Doyle
Sarah Elizabeth Driccoi
Jacqueline Dussey
Jeffrey David Engle
Tamara Anne Engle
Holly Anne Eschilman
Lauren Trenholm Evans
Vincent Joseph Fabro
Stephanie Eann Falbo
Sandra Jo Faze
Inara B. Febus
Mark Dwain Fenton
Amanda Catherine Ferry
James Joseph Finneran
Steven Scott Fissell
Michael Thomas Fite
Loreen Kay Frey
Donald Thomas Gang
Eric John Gibson
Joseph Michael Ginty
Christopher Michael Gon
Ann Elizabeth Gorman
Robert Lawrence Gross
Dana Ellen Guterman
Karen Leah Hamilton
Rachel L. Harner
Timothy Michael Harner
Kimberly E. Harruff
William Eric Hartman
James Eric Heagen
Dawn Leann Healey Heimich
Judy Marie Hellworth
Wendy Lea Henry
Thomas Carl Henson
Carol June Higham
Laura Ann Hillstrom
Tonya Marie Hines
Edward Thomas Holland
Julie Ann Holloway
Judith Arlene Howe
Carla J. Hrivnak
Julie Marie Huffman
Kevin Frederick Huss
Melissa Anne Ingmire
Michael John Isler
Sean Ivoghi
Harriet Anne Jakob
Daniel Mark Jenkins
Linda Kay Johnson
Julie Ellen Jordan

With University Honors
Christine P. Abbott
Pamela Ann Armour
Laura Beth Arnold
Todacien Deandre Buchanan
Robert Jirou Chestnut
Anthony Olin Clark
Jonathan Andrew Clayton
Marie Elizabeth Findish
Michelle Lynne Finneran
Keith Hugh Hunter
Christopher John Hutson
Edward Kowalski
Laura Lynn Liebenauer
Jody Lea Mathews
David John McCabe
Joshua Adam Mott
Regina Diane Olbinsky
Kathryn E. Osborn
Linda Sue Packer
Daniel James Phelps
Daniel Glenn Reiss
Sean T. Romanoff
Christine Marie Rousseau
Pamela Joy Kaczor
Angela Ruth Kaverman
Joanne Marie Keck
Scott Michael Keelin
Saundra Jo Keith
Christopher Allen Kelble
Jennifer Lauren Kent
Jeffrey Howard Kim
Steven Howard Kimberly
Scott James Kirner
James Mosher Klein
Rebecca Jane Knecht
Linda Lee Kocis
Mary Elizabeth Kosko Oates
Mark Allan Kovachick
Jennifer Anne Kral
Carolyn Diane Kraml
Keith B. Kreider
Peggy Lynne Krug
Kim Lian Kuah
Frances Marie LaCorte
Joanne Marie Lastovka
Nancy Elaine Leech
Laurie Ann LeMaster
Jeffrey Michael Lepore
Mary Wales Leslie
Kimberly Anne Liebherr
Cynthia L. Lightner
James Edward Loggren
Darcy Lynne Lord
Lonia Noelle Lybarger
Kathleen Marie Lynch
Lynn Ellen MacDougall
Jill Christa Manson
Andrew Paul Marshall
Sandra Lynn Mason
Cecilia Ann May
Cynthia Davison May
James Patrick McDonough
Craig Alan McElderry
Susan Maria McVey
Donald Lynn Messer
Robert Raymond Michalski
Lee Anne Mieseler
Michael Joseph Mikulin
Julianne Smek Miller
Margaret Mary Miller
Markos Samuel Miller
Thomas Scott Miller
Denise Lynn Mitchell
Rosemarie Moll
Brenda Sue Moore
Jennifer Elizabeth Moore
Edward Vincent Morgan
Julia Metzger Neidert
Jeffrey David Neidhart
Joe Thanh Nguyen
Lori Denise Nichols
Annetta Cherie Niemhaus
Kara Lynn Notz
Kristin Louise Oberdier
Jennifer Lynn Oberle
Lyle Terrance Olson
Suzanne Marie Pace
Bryan A Pardo
Heather Lee Parish
Ketan Hirslal Patel
Lisa Mary Peiffer
Kevin David Peter
Warren Thomas Peters
Cecilia Leona Pierce
Jessica Lynn Pollock
James Andrew Price
David Armand Pucci
James Curtis Puccio
Michelle Kathleen Putz
Frank George Radis
Aleksandar Rakic
David Ray Ralston
Tamar Leigh Reaick
John Allen Reese
Elizabeth Lynne Rhodes
Teresa Lane Rhedebeck
Steven Grant Richardson
John Christopher Riegel
Kenneth Ray Riggins
Amy Lynne Robins
David Mark Robinson
Jolie May Robinson
James Wesley Rogers Jr.
M. Ann Rothrock
Erin Marie Rutnik
Stephanie Jane Sadow
Kumala Budi Saputra
Thomas Savoy
Angela Marie Schings
Peter Robert Schwanke
Leslie Jon Schwendeman
Susan Elizabeth Seitz
Ann Margaret Selby
Rhonda Myler Shappert
Amy Christine Shaw
Heidi Elise Simon
Darin Patrick Skinner
Bernadette Yvonne Smith
Paul Jeffrey Smith
Terrence Allen Smith
Robert Eric Somogyi
Darlene Anne Sorensen
Deborah Lynn Spahn
Michelle Ann Stambaugh
Michael Kent Stanford
John Bernard Stengle
Sandra Kay Stinehart
Carolyn Kay Stout
Kellie Jean Swaggerty
Andrew Gerard Szmerekovsky
Caryn Lynn Tanner
Donna Jeanne Tansella
Lauren Marie Tallick
Megan Scully Thomas
Sara Sue Thomas
Melissa Ann Tobias
Ann Teresa Troyan
Paul Everett Turner
Robert Charles Vincent
Jeffrey Lee Vogt
Stuart Allan Wahl
Jennifer Lee Wallace
Brian Lawrence Warner
Angela Ruth Weber
David Martin Weinsteins
Cynthia Deean Welker
Kathryn Sue Whitely
Kimberly Jean Wiesennmayer
Jeffery Lynn Williams
Martin Lee Wilson
Melinda Alice Wolfe
Margo Lynn Woods
Jane Ann Wright
Amy Christine Yore
Pamela Jean Young
Dawn Marie Zobel
Leslie Ann Zucker
Columbus, Ohio, June 1, 1990

The Board of Trustees met at its regular monthly meeting on Friday, June 1, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

```
  **  **  **  **
```

Minutes of the last meeting were approved.

```
  **  **  **  **
```
June 1, 1990 meeting, Board of Trustees

The Chairperson, Mrs. Bowser, called the meeting of the Board of Trustees to order on June 1, of 1990, at 11:20 a.m. She requested the Secretary to call the roll.

Present: Shirley D. Bowser, Chair, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Alex Shumate, Sophia L. Paige, and David A. Tonnies.

--0--

STUDENT TRUSTEE

Mrs. Bowser:

It is my very distinct pleasure to introduce Mr. David A. Tonnies, our newest Student Trustee, having been appointed by Governor Celeste to serve a two-year term ending May 13, 1992.

David is currently a second-year medical student from Lake Milton, Ohio. He has already been very active here at the University, serving on several University and Faculty committees such as the University Senate, and has been a member of USG and the Interprofessional Council.

In addition, David works as a supervisor at the University Honors House, and last year was the recipient of the "GM Spirit Award," presented to students who recognize the spirit of student volunteer service and student leadership on campus and in the community.

We are all very pleased to have you with us David, and we know that we will enjoy the next two years that you will be serving here. Glad to have you on board.

--0--

COMMITTEE APPOINTMENTS 1990-1991

WHEREAS the appointments to Committees and representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, The Arthur G. James Cancer Hospital and Research Institute Trustee Liaison, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1990-91 are as follows:

**Educational Affairs**
- John W. Kessler, Chair
- Leslie H. Wexner, Vice Chair
- Alex Shumate
- David A. Tonnies

**Investments Committee**
- Hamilton J. Teaford, Chair
- Deborah E. Casto, Vice Chair
- Milton A. Wolf
- John J. Barone

**Standing Committee on Agricultural Affairs**
- Deborah E. Casto, Chair
- Steven D. Maurer, Vice Chair, Ex Officio
- John J. Barone
- Leslie H. Wexner
June 1, 1990 meeting, Board of Trustees

COMMITTEE APPOINTMENTS 1990-1991 (contd)

Student Affairs
Sophia L. Paige, Chair
Alex Shumate, Vice Chair
John W. Kessler
David A. Tonnies
New Trustee

Fiscal Affairs
Milton A. Wolf, Chair
Hamilton J. Teaford, Vice Chair
Alex Shumate

Personnel Committee
Shirley D. Bowser, Chair
Hamilton J. Teaford, Vice Chair
John J. Barone

Development Fund Board of Directors
Deborah E. Casto (1989-91)
Leslie H. Wexner (1989-91)

Inter-University Council
New Trustee

Research Foundation Board of Directors
Deborah E. Casto

University Hospitals Board
Hamilton J. Teaford
Alex Shumate

The Arthur G. James Cancer Hospital and Research Institute
Trustee Liaison
John J. Barone

University Foundation Board of Directors
Leslie H. Wexner
John W. Kessler*

Ohio State University Affiliates, Inc.
Shirley D. Bowser (term 1 year)
Hamilton J. Teaford (term 2 years)
John J. Barone (term 3 years)

*Executive Committee

NOW THEREFORE

BE IT RESOLVED, That the Committee appointments and the representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, The Arthur G. James Cancer Hospital and Research Institute Trustee Liaison, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1990-91 are hereby ratified and confirmed.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--
June 1, 1990 meeting, Board of Trustees

RESEARCH FOUNDATION REPORT

Mr. Barone:

Research Foundation grants and contracts for the month of April 1990 are shown in the Board agenda book. There are 98 awards listed which provide a gross income of $9.5 million.

Funding for the first ten months of the fiscal year is less than 1% ahead of that of last fiscal year at this time. Only in the Industrial sector is funding running behind that of last year.

Some highlights of awards are:

$389,000 from the U.S. Department of Education for workplace literacy.

$107,000 from the Department of Health and Human Services to study how musicians learn and remember music for a performance.

$100,000 from the Midwest Plant Biotechnology Consortium to research plant activity at the molecular level.

$53,000 from the National Science Foundation to support a summer program to encourage outstanding high school students to pursue a career in the sciences.

That concludes my report. Dr. Sweeney is available to answer any questions you may have.

I would like to further report that I am turning this Foundation over to Debbie. I want to thank Dr. Sweeney, he is a wonderful person and it has been a great pleasure for me to serve on this committee. I think it is a very important part of this University.

Dr. Sweeney:

Thank you for your kind words.

Mrs. Bowser:

John, we thank you for serving this last year on the Research Foundation Committee, you have done it very capably.

--0--

HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

Yesterday the University Hospitals Board and its Professional Affairs/ Education/Research Committee and Administrative/Operations Committees met.

The Professional Affairs Committee reviewed and endorsed the recommended medical staff appointments. The Committee discussed the recent revision to the Hospitals' "Do Not Resuscitate" policy and heard the annual Program Evaluation report of the Department of Physical Medicine and Rehabilitation, headed by Dr. Paul Kaplan. I might, once again, remind you that this is the particular program which was recognized in the U.S.A News and World Report magazine as one of the
June 1, 1990 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

outstanding programs in the United States. Dr. Kaplan also responded to some questions which we asked about the Camera Center which, as you know, is being managed by Ohio State. It was gratifying to learn that they have, in the short time that we have been managing it, increased the number of patients per week from 25 to approximately 125. And already, the State is asking us to perform more functions than had originally been asked. The Professional Affairs Committee then adjourned into Executive Session to review specific Quality and Utilization indicators. I think it is very important for this Board to realize that the Hospitals Board is now undertaking very significant oversights of those Quality Control Indicators which will increase the comfort level for us all. It is also very gratifying to see what a high level of quality there is in the Hospitals.

The principal agenda item at the Administrative/Operations Committee meeting was the review of the Hospitals' proposed 1990-91 Operating Budget, which is of course incorporated in the budget that we will consider later. After thorough review with Mr. Fraley, the Committee approved the proposed budget which contains an average overall increase of 8.8 percent in the rates of the Hospitals. Budgeting for the coming year is extremely difficult because of a significant number of unknown quantities, many related to the opening of the Cancer Hospital and Research Institute. We must realize that a number of patients will now be moving out of University Hospitals into the Research Institute and the whole problem of weighing the relative DRG's and the relative payment performance of both types of patients becomes one of the many things that have to be factored into this budget, which is always difficult, but was all that much more difficult this year. It should be noted that the effective yield of an 8.8 percent increase will actually only be a 5.6 percent increase because of varying reimbursement structures and, in fact, non-payment by some of the patients. Another factor which the Hospitals must deal with is that it will be the banker, in effect, for the Cancer Research Hospital and will state if it has any deficits in the next year which seems highly probable.

The Hospitals Board looks forward to another joint meeting with the Trustees, possibly this fall. The Hospitals Board feels the particular need to make this Board aware of the great difficulties which it is facing in terms of the continued funding of the Hospitals on the long-term basis. There will indeed be approximately a $1.5 million loss from current operations this year, but that is really not very significant because, I think, that will be taken care of next year. The significant thing is that at the end of the fiscal year '91, there will only be about a $2 million balance in the capital funds available in the Hospitals. And if you know anything about Hospitals, $2 million doesn't really take care of one brand new machine, let alone significant needs that the Hospitals is going to have. And there is no question that in the very near future significant support is going to have to come for the Hospitals, either from the State or from the University or both, for it to continue the kind of excellence which it is rightly noted for.

I am happy to report that Dr. John Kramer was re-elected for another year as Chairperson of the Hospitals Board and that Ms. Susan Insley will be serving as Vice Chairperson. Mr. Fraley summarized the proposed projects for the expansion and renovation of Upham Hall. Upham Hall, as you may know, is the psychiatric facility. It is important to note that building is one of the more decrepit on campus and the only reason, frankly, it can stay open is because of some of its defects have been grandfathered into current law. So, the necessity to improve that facility is
June 1, 1990 meeting, Board of Trustees

HOSPITALS BOARD COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

obvious, to say the least. And that will be taking place over the next couple of years. Also, he discussed the upgrading and consolidation of the Surgical Intensive Care Unit. Currently, that unit is spread out in three different locations and will be consolidated into one and made larger if that proposal receives the approval on its COM. We will be bringing more specific information regarding those two projects to you within 60 days for your approval in the areas that Mr. Nichols brings up.

We, also, discussed the proposed Executive Healthcare Travel Plan, which would utilize the Hospitals' Ask-A-Nurse program and is a provider network to provide medical information and assistance to travelers anywhere in the world. More information on that will be gathered and shared with the Board in the future.

Finally, the Board acknowledged Mrs. Bowser's incredible participation and leadership on that Board during the past seven years; and as well expressed our best wishes to Mr. Ihrig as he leaves Ohio State for the West Coast. I want, on a personal note, to particularly comment on the extraordinary time commitment that our Chairwoman has made to the Hospitals Board. Very few of the rest of you are aware of how much time she has put in and what a significant impact she has had on that Board, and I for one am very appreciative of that. Madam Chair, that completes my report.

--0--

INVESTMENTS COMMITTEE REPORT

Mr. Teaford:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as presented by Mr. Rodack. The value of the endowment as of May 18, 1990, was reported as $312.7 million. Thanks to the improvement in the Stock Market, that has increased over $11 million since we last met. I would also note, happily, that our professional managers are now ahead of the student managers. It is also interesting to see, over time, the performance of various managers. You can really appreciate why we have different managers with different philosophies. For example, there is now one manager whose performance for the last two years has not been at all attractive, but now, indeed, has a 25 percent return. Because different philosophies seem to be in favor in different times, I think it is important for this Board to have multiple managers.

Mr. Rodack also presented the quarterly report on non-endowment investment performance which showed investment returns for all non-endowment portfolios. At March 31, 1990, non-endowment investments totaled $292 million. In other words, between the two of those, on March 31, 1990, there were altogether some $593 million in invested funds of the University.

Not having sat on this committee for three years, it was gratifying to see the great progress the Committee has made under the leadership of Mr. Kessler. When I was on that Committee, it was right about the time the secret funds at Minnesota appeared, and it caused a lot of fear since we thought we didn't know everything. I have been assured now that there are no other funds of any kind at the University.
INVESTMENTS COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

The Committee also heard a quarterly report comparing the performance of Ohio State's endowment with other investments and market parameters. I am happy to report that on the 1, 3, 5, and 10-year comparisons, Ohio State's investment performance is ahead of the other Big 10 comparably-sized endowments, public universities and, indeed, all universities.

(See Appendix LXXIII for complete context of The Ohio State University Endowment Summary, May 18, 1990, page 1207.)

Finally, the Committee reviewed and recommends approval of the proposed comprehensive policy governing endowment and non-endowment investments. I might point out that this has not been changed since 1981 when we had only $85 million in the endowment investments. Again, I would like to acknowledge Mr. Kessler's work on this. We are just recommending the work that has been done by our predecessors. It seems clear that we will be back with this more recently then 9 years, as the endowment funds continue to grow.

In addition to clearly defining the strategies of the two different kinds of funds -- the endowment and non-endowment funds -- you will note that this policy brings us in-line and makes available new investment vehicles, for example foreign investments. It also eliminates some old investments which are clearly no longer appropriate, such as reverse repos and CD's not collateralized which are in excess of $100,000 and are no longer permitted. It also formalizes the proxy role of the Treasurer and, indeed, does eliminate one of the redundant resolutions that we do annually, the appointment of the Treasurer as Trustee of various funds. Madam, I would recommend that this Board adopt this policy.

INVESTMENTS POLICY

Resolution No. 90-125

Synopsis: The Investments Committee recommended the revision of a comprehensive policy governing investments.

WHEREAS the Board of Trustees, from time to time, has adopted specific policies governing various aspects of the management of the endowment and non-endowment investment portfolios; and

WHEREAS there is a need for a comprehensive policy to provide for the overall management of these investment portfolios; and

WHEREAS the proposed endowment and non-endowment investments policies have been recommended by the University Administration, in consultation with Legal Counsel, and the Investments Committee:

NOW THEREFORE

BE IT RESOLVED, That the following endowment and non-endowment investments policies for The Ohio State University be adopted by the Board of Trustees; and
INVESTMENTS POLICY (contd)

BE IT FURTHER RESOLVED, That the Treasurer be, and hereby is, directed and authorized to implement and administer these policies and to manage the endowment and non-endowment investment portfolios in accordance with these Policies.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY

I. Goals

It shall be the policy of The Ohio State University to manage the endowment portfolio for the use and benefit of the University in a manner that will preserve and maintain the real purchasing power of the principal in the portfolio while allowing for an annual distribution of income according to this policy.

II. Investment Philosophy

The endowment portfolio shall be managed with the intention of obtaining the highest possible "total return" (i.e., current income plus net realized and unrealized appreciation) of the investment portfolio, balancing reasonable growth with maintenance of prudently acceptable risk.

The endowment portfolio will be broadly diversified across and within major asset classes.

III. Definitions

For purposes of this Policy, the endowment investments portfolio ("endowment portfolio") shall include all principal of the Endowment Fund, the various charitable remainder annuity trusts, pooled income funds, unitrusts, all other gifts made to the University and the income produced on these funds.

IV. Gains/Losses

A. It shall be permissible for the Treasurer to realize gains and losses in the portfolio if such an action would be consistent with the University's investment goals. Gains and losses realized on the Endowment Fund shall be debited or credited against the Endowment Gain and Loss Account.

B. In order to maintain the purchasing power of the endowment as well as maintain an orderly distribution of income under the Endowment Fund's spending policy, a stabilization reserve account shall be maintained. The stabilization reserve account shall be used to account for any excess (deficit) of income earned versus monies distributed to the endowment funds.

V. Advisors

The University may utilize the services of external investment advisors to assist in the management of the endowment portfolio. The responsibilities and types of investment services provided by investment advisors shall be specified in written agreements. The investment advisors appointed by the Board of Trustees will invest the endowment's assets in accordance with this policy, their written agreement and their judgements.
ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)

concerning relative investment values. The Board may appoint an advisor with specific authority to invest in assets not otherwise addressed in this policy. The investment advisors are accorded full discretion, within policy limits, to select individual securities, and diversify the endowment's assets. The number of advisors and the amount of funds under each advisor's aegis shall be determined by the Board of Trustees.

The Board of Trustees may authorize the Treasurer to manage portions of the endowment portfolio in specific asset classes in accordance with this policy. New money received by the Endowment may be placed by the Treasurer in index funds in amounts to maintain the investment limitations set forth hereafter until such time as the Board of Trustees decides to reallocate such funds.

VI. Limitations

A. Investments in equities of foreign corporations headquartered outside the United States shall be limited to not more than 10% of the Endowment. No investments shall be made in any security of a foreign country.

B. Not less than 50% nor more than 70% of the Endowment Fund shall be invested in equities. Additionally, not less than 20% nor more than 40% of the Endowment Fund shall be invested in fixed-income securities. For purposes of this limitation, the amounts recommended to be maintained in short-term investments by the equity advisors and by the fixed income advisors shall be considered as invested in equities or fixed-income securities, respectively, as long as those funds are committed to be invested in equities or fixed-income securities.

C. The Treasurer may specify terms and conditions that are more restrictive than those of this Policy but shall not permit a less restrictive policy without specific authorization from the Board of Trustees.

D. The quality rating guidelines which are to be used shall be the ratings as of the date of the purchase of the security. If a rating change occurs which disqualifies a security that is already present in the endowment portfolio, the security must be sold within ninety days from the discovery of the rating change.

E. Not more than 20% of the Endowment Fund shall be made up of real estate or real estate related loans.

VII. Marketability

Securities purchased by the University and endowment portfolio shall be listed on the New York, American or other exchange or be unlisted and traded over-the-counter provided that all securities purchased shall be readily marketable and meet the quality guidelines of this Policy. Real estate purchases will be based on investment merit. Investments that have no ready market that are gifts to the University shall only be accepted if, as determined by the Vice President for Finance and the Treasurer, acceptance is in the best interest of the University.
VIII. Proxies

The Treasurer has the authority to vote proxies in accordance with this policy. Proxies shall be voted in favor of management's recommendation, unless the Treasurer deems that it would not be in the best interest of the University, or the shareholders or if it violates any provisions in this policy. The Treasurer shall make a written report of proxy votes to the Investments Committee at each regular meeting.

IX. Social Responsibility

All investments of the endowment portfolio must comply with the policy of the Board of Trustees approved June 7, 1985 regarding social and employment policies of corporations. Proxies shall be voted in accordance with said policy.

X. Authorized Investments

The following categories of investments shall be authorized for the endowment portfolio:

A. Commercial Paper

1. Rated A-I (Standard and Poor's) and P-1 (Moody's), not more than $4,000,000 in any corporation or financial institution.

2. The total of commercial paper, certificates of deposit and banker's acceptances in one financial institution may not exceed $5,000,000 (up to $10,000,000 if the amount exceeding $5,000,000 is in certificates of deposit that are 100% collateralized at their market value).

3. No commercial paper may be purchased with a term greater than 270 days.

B. Banker's Acceptances

1. An amount not to exceed $3,000,000 in any bank, or subsidiaries of that bank whose long-term debt is rated A or better.

2. The total of commercial paper, certificates of deposit and banker's acceptances in one financial institution shall not exceed $5,000,000 (up to $10,000,000 if the amount exceeding $5,000,000 is in certificates of deposit that are 100% collateralized at market value).

3. No banker's acceptances shall be purchased with a term greater than 270 days.

C. Eurodollar CD and time deposits

1. An amount not to exceed $3,000,000 in any bank or subsidiaries of that bank with assets in excess of $5 billion and a long-term debt rating of A or better.

2. No Eurodollars shall be purchased with a term greater than one year.
D. Corporate Bonds and Notes

1. No bond or note shall be purchased in an amount greater than $3,000,000 par value of any corporation.

2. Bonds and notes shall be rated A or better.

3. No corporate bonds or notes shall be purchased with a term greater than 40 years.

E. Common Stock and Preferred Stock

An amount not to exceed 3% of the outstanding shares of a company may be purchased. All stock shall be of investment grade.

F. Mutual and Co-Mingled Funds

Investment in any fund shall not exceed 10% of the total funds of the mutual or co-mingled fund. All mutual or co-mingled funds shall be of investment grade. Money market mutual funds shall not apply to this section (see Section M)

G. Real Estate

Investments in real estate and real estate related loans shall be made only upon specific authorization of the Board of Trustees. The Treasurer shall be responsible for the management of all real estate in the endowment portfolio.

H. Municipal or State Bonds

1. An amount not to exceed $3,000,000 in any one municipality or state (except that there shall be no limit on Ohio State University or Ohio State University-related bonds).

2. Bonds shall be rated A or better (except that there shall be no rating requirement on Ohio State University or Ohio State University-related bonds).

3. No bonds shall be purchased with a term greater than 30 years.

I. Certificates of Deposit

1. Collateralized at market value

Not to exceed $5,000,000 in any Ohio bank or savings and loan whose long-term debt is rated A or better provided the amount not federally insured is collateralized as provided in Section 135.18 of the Ohio Revised Code with securities eligible under Section 135.18 (B).

2. Uncollateralized

Not to exceed $100,000 if uncollateralized in any bank or savings and loan located in the United States whose long-term debt is rated A or better.
ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)

3. The total of commercial paper, certificates of deposit, and banker's acceptances in one financial institution may not exceed $5,000,000 (up to $10,000,000 if the amount exceeding $5,000,000 is in certificates of deposit that are 100% collateralized at their market value).

4. No certificate of deposit shall have a term exceeding one year.

J. U.S. Treasury Bills, Notes and Bonds

No limitations on amount invested or term.

K. U.S. Government Agencies

No limitations on amount invested or term.

L. Repurchase Agreements

1. Collateralized at Market Value

Not to exceed $10,000,000 with any dealer or broker recognized by the Federal Reserve as a primary dealer or any bank whose long-term debt is rated A or better and only provided a written repurchase agreement is in place. The term of any agreement shall not exceed 15 days. Collateral must be U.S. government or agency securities at 102% or more of market value. Collateral must be segregated in an account bearing the University's name, except when there already exists a demand deposit account.

M. Money Market Mutual Funds

1. Government collateralized

There shall be no limitations on the amount invested provided it is 100% collateralized at market value by U.S. government or agency securities.

2. Other collateral

There shall be no limitations on the amount invested provided it is 100% collateralized by marketable securities that comply with all other provisions set forth in this policy.

N. Guaranteed Investment Contracts (GIC)

1. An amount not to exceed $1,000,000 can be done with any insurance company with assets in excess of $5 billion and a long-term debt rating of A or better.

2. GIC's must be 100% collateralized with U.S. treasuries, agencies or corporate bonds rated A or better.

3. No GIC shall be purchased with a term greater than 5 years.
ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)

O. Collateralized Mortgage Obligations (CMO)
   1. An amount not to exceed $3,000,000 may be invested in any one issuer.
   2. CMO’s must be rated AAA.
   3. No CMO shall be purchased with a term greater than 30 years.

P. Asset Backed Securities (ABS)
   1. An amount not to exceed $1,000,000 may be invested in any one issuer.
   2. ABS’s must be rated AAA.
   3. No ABS shall be purchased with a term greater than 5 years.

Q. Other Investments

Between meetings of the Board of Trustees, if deemed advisable, other investments not specifically authorized by this Policy may be made if approved by the Investments Committee. Any such action shall be taken to the Board of Trustees at its next meeting for approval.

X. Management of Investments

Except as provided herein, the Treasurer shall be authorized to implement and administer this Policy on behalf of the Board of Trustees and manage the endowment portfolio in accordance with this Policy.

XI. Exceptions

Modifications and exceptions to this Policy shall be authorized only by resolution of the Board of Trustees or as provided herein. The terms and conditions of this Policy as to the endowment portfolio may be waived if specified by the terms of a gift and approved by the Board of Trustees.

XII. Reporting and Accountability

The Treasurer shall be accountable to the Board of Trustees for implementing this Policy. The Treasurer shall make a written report to the Investments Committee at each regular meeting on the status of the Endowment Fund.

XIII. Income Distribution Policy

A. For the Endowment Fund, income will be distributed according to a distribution policy formula based upon a distribution of 5.5% of the average market value of the portfolio over the most recent three years.

B. For trusts, income will be distributed according to the contract established between the donor and the trustee.
ENDOWMENT FUND INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)

C. For pooled income funds, income will be distributed on a pro rata basis equivalent to the percentage share a fund has of the entire pool.

D. Distribution of income for any other funds covered under this policy will be in accordance with the terms of the fund as approved by the Treasurer and Vice President for Finance.

XIV. Trusteeship

A. The Treasurer is authorized to serve as trustee for any Charitable Remainder Unitrust or Charitable Remainder Annuity Trust in which The Ohio State University is the charitable remainder beneficiary, and to execute as trustee and on behalf of the University, any and all documents approved by University legal counsel, which are required to complete such gifts.

B. The Vice President for Finance, the Treasurer and the Development Fund Director of Trusts and Estates shall serve as the trustees for any pooled income funds and to execute as trustee and on behalf of the University, any and all documents approved by University legal counsel, which are required to complete such gifts.

XV. Support Level Required to Establish an Endowment Fund

A. A "Named Fund" will be established in the Endowment with support of $15,000 or more and the distributed income will be used to provide support for programs designated by the donor.

B. An "Endowed Professorship" will be established in the Endowment with support of $500,000 or more and the distributed income will be used to supplement the salary or provide program support for an outstanding scholar in an academic discipline designated by the donor.

C. An "Endowed Chair" will be established with support in the amount of $1,250,000 or more and the distributed income will be used to supplement salary or provide program support for a truly distinguished scholar in the academic discipline designated by the donor.

D. A "Designated Professorship" must be established with annual support of $30,000 or more for a minimum of three years.

E. A "Designated Chair" must be established with annual support of $75,000 or more for a minimum of three years.

NON-ENDOWMENT INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY

I. Goals

It shall be the policy of The Ohio State University to manage the non-endowment investments portfolio for the use and benefit of the University in a manner that will produce a yield which, when compared to the current marketplace, would be described as acceptable by conservative investment managers.
II. Investment Philosophy

The non-endowment portfolio shall be managed with the intention of obtaining the highest possible "current income" for the investment portfolio while adhering to a prudent level of risk, and retaining sufficient liquidity to meet cash flow requirements.

III. Definitions

For purposes of this Policy, the non-endowment investments portfolio shall include all non-endowment investments of University funds.

IV. Gains/Losses

It shall be permissible for the Treasurer to realize gains and losses in any of the portfolios if such an action would be consistent with the University's investment policy. Losses and gains realized on the non-endowment portfolio shall be charged or credited against current income.

V. Limitations

A. The Treasurer may specify terms and conditions that are more restrictive than those of this Policy but shall not permit a less restrictive policy without specific authorization from the Board of Trustees.

B. The quality rating guidelines which are to be used shall be the ratings as of the date of the purchase of the security. If a rating change occurs which disqualifies a security that is already present in one of the University's portfolios, the security must be sold within ninety days from the discovery of the rating change.

VI. Marketability

All securities purchased shall be readily marketable and meet the quality guidelines of this Policy. Investments that have no ready market that are gifts to the University shall be accepted if, as determined by the Vice President of Finance or the Treasurer, acceptance is in the best interest of the University.

VII. Social Responsibility

All investments of the non-endowment portfolios must comply with the policy of the Board of Trustees approved June 7, 1985 regarding social and employment policies of corporations.

VIII. Authorized Investments

The following categories of investments shall be authorized for the non-endowment portfolio as indicated.

A. U.S. Treasury Bills, Notes and Bonds

No limitations on amount invested or term.
NON-ENDOWMENT INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)

B. U.S. Government Agencies

No limitations on amount invested or term.

C. Repurchase Agreements

Not to exceed $10,000,000 with any dealer or broker recognized by the Federal Reserve as a primary dealer or any bank with assets in excess of $5 billion and a long-term debt rating of A or better and only provided a written repo agreement is in place. The term of any agreement shall not exceed 15 days. Collateral must be U.S. government or agency securities at 102% or more of market value of any agreement. Collateral must be retained in an account bearing the University's name, except when there already exists a demand deposit account.

D. Money Market Mutual Funds

1. Government Collateralized

There shall be no limitations on the amount invested provided it is 100% collateralized at market value by U.S. government or agency securities.

2. Other collateral

There shall be no limitations on the amount invested provided it is 100% collateralized by marketable securities that comply with all other provisions set forth in this policy.

E. Certificates of Deposit

Not to exceed $5,000,000 in any Ohio bank or savings and loan with assets in excess of $5 billion and a long-term debt rating of A or better provided the amount not federally insured is collateralized as provided in Section 135.18 of the Ohio Revised Code with securities eligible under Section 135.18(B). No certificate of deposit shall have a term exceeding one year.

F. Mutual Funds and Co-Mingled Funds

Investment in any fund shall not exceed 10% of the total funds of the mutual fund. All mutual funds shall be of investment grade and comply with all other provisions set forth in this policy. Money market mutual funds shall not apply to this section (see Section D).

G. Municipal or State Bonds

1. An amount not to exceed $3,000,000 in any one municipality or state (except that there shall be no limit on Ohio State University or Ohio State University-related bonds).

2. Bonds shall be rated A or better (except that there shall be no limitation on Ohio State University or Ohio State University-related bonds).

3. No bonds shall be purchased with a term greater than 30 years.
June 1, 1990 meeting, Board of Trustees

NON-ENDOWMENT INVESTMENTS POLICY
THE OHIO STATE UNIVERSITY (contd)

H. Other Investments

Between meetings of the Board of Trustees, if deemed advisable, other investments not specifically authorized by this Policy may be made if approved by the Investments Committee. Any such action shall be taken to the Board of Trustees at its next meeting for approval.

IX. Management of Investments

Except as provided herein, the Treasurer shall be authorized to implement and administer this Policy on behalf of the Board of Trustees and manage the non-endowment portfolios in accordance with this Policy.

X. Exceptions

Modifications and exceptions to this Policy shall be authorized only by resolution of the Board of Trustees or as provided herein. The terms and conditions of this Policy as to the non-endowment portfolio may be waived if specified by the terms of a gift and approved by the Board of Trustees.

XI. Reporting and Accountability

The Treasurer shall be accountable to the Board of Trustees for implementing this Policy. The Treasurer shall make a quarterly written report to the Investments Committee on the status of the non-endowment portfolios.

--0--

ACADEMIC AFFAIRS COMMITTEE REPORT

Mr. Kessler:

We had a very interesting presentation this morning on the Wexner Centers' Academic Program by Dr. Robert Stearns, Executive Director of the Wexner Center. I would suggest that at some future date the full Board might want to hear about the activities they are doing. It was very interesting and we complimented him on his presentation.

The Committee is also recommending the following resolutions:

RENAMING OF DEPARTMENT

Resolution No. 90-126

Synopsis: The Academic Affairs Committee recommended the renaming the Department of Anatomy to the Department of Cell Biology, Neurobiology, and Anatomy.

WHEREAS a majority of faculty in the present Department of Anatomy have professional affiliations with national associations in cell biology or neurobiology and not with similar anatomy associations; and
June 1, 1990 meeting, Board of Trustees

RENAMEING OF DEPARTMENT (contd)

WHEREAS the image associated with the present name of the Department of Anatomy does not reflect the true research interests of the faculty; and

WHEREAS the Department wishes to better advertise research opportunities in cell biology and neurobiology to attract potential graduate students; and

WHEREAS the proposed name change is in line with the national trend to change the designation of anatomy departments; and

WHEREAS the University Senate approved the renaming of the Department of Anatomy on May 5, 1990:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the Department of Anatomy to the Department of Cell Biology, Neurobiology, and Anatomy, effective July 1, 1990, is hereby approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

AMENDMENTS TO THE MEDICAL STAFF RULES AND REGULATIONS
OF THE OHIO STATE UNIVERSITY HOSPITALS
Resolution No. 90-127

Synopsis: The Academic Affairs Committee recommended the approval of amendments to the Medical Staff Rules and Regulations.

WHEREAS The Ohio State University Hospitals Board pursuant to Bylaw 3335-101-04 of the Hospitals Board Bylaws is authorized to recommend to the Board of Trustees the adoption of amendments to the Medical Staff Rules and Regulations; and

WHEREAS the proposed amendments to the Medical Staff Rules and Regulations 84-12 and 84-13 were approved by the University Hospitals Board as follows:

AMENDED RULES AND REGULATIONS

84-12 Medical records committee.

(A) Balance unchanged.

(B) Each member of the medical staff shall conform to the policies established by the medical records committee, including the following:

(1) Balance unchanged.
(2) Deadlines and sanctions

(a) Balance unchanged.

(b) Balance unchanged.

(c) All procedures performed shall be fully described in the record by the responsible physician or the physician's designee within 24 hours of the time of completion of the procedure. An operative report must be dictated by no later than 10:00 a.m. the day following the procedure. The transcribed operative report must be signed by the attending surgeon within 21 days of the patient's discharge. Any operative report not dictated by 10:00 a.m. the day following the procedure shall be deemed delinquent and the attending surgeon responsible will lose operating room privileges that day and admitting privileges the following day. Surgeons will receive phone calls from the medical record administrator indicating the delinquent operative reports. A list will be prepared and distributed monthly by the medical record administrator indicating the surgeons suspended during the previous month. The pathologist shall make such examination as necessary to arrive at a satisfactory diagnosis. The pathologist's report shall then be included on the patient's record.

84-13 Operating room committee.

(A) The operating room committee shall have representation from clinical departments using the operating room, the medical director of the operating room, nursing, director of the operating room, the operating room coordinator, and hospital administration. The committee is appointed by the medical director in consultation with the executive director of university hospitals. The committee shall meet at least quarterly and carry out the following duties:

(1) Insure that surgical privileges have been delineated for each member of the medical staff who uses the operating rooms.

(2) Develop written policies and procedures concerning the scope and provision of care in the surgical suite in cooperation with the departments and services concerned.

(3) Consider problems in operating room functions brought to its attention by any of its members.

(4) Monitor medical staff compliance with operating room policies established for patient safety, infection control, and smooth functioning of the operating rooms.

(5) Develop and make recommendations to the medical staff administrative committee regarding conduct of medical staff in the operating rooms.

(6) Maintain written records of actions taken, and results of those actions, and make these available to each committee member, the vice president of health services, the medical director, the executive director, and the associate executive directors.

(7) The operating room committee shall be a hospital committee and be appointed in accordance with policies and procedures of the Ohio state university hospitals board.
AMENDMENTS TO THE MEDICAL STAFF RULES AND REGULATIONS
OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)

Balance unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Medical Staff Rules and Regulations be adopted as recommended by the University Hospitals Board.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

WAIVER OF PARAGRAPH (G) OF BYLAW 3335-1-08
OF THE ADMINISTRATIVE CODE

Resolution No. 90-128

Synopsis: The Academic Affairs Committee recommended the following Waiver of Paragraph (G) of Bylaw 3335-1-08 of the Administrative Code.

WHEREAS the Board of Trustees of The Ohio State University, did on January 9, 1976, amend paragraph (G) of bylaw 3335-1-08 of the Administrative Code to state that "buildings and structures shall not be named for any person who is an officer or employee of the University or the State of Ohio, but may be named for a person who has been retired or has otherwise left such a position for a minimum of three years"; and

WHEREAS the President wishes to recommend that the connector building to be constructed between Biological Sciences and Parks Hall, be named to honor Vernal G. Riffe, Jr., who is the current Speaker of the Ohio House of Representatives:

NOW THEREFORE

BE IT RESOLVED, That the applicable requirements of paragraph (G) of bylaw 3335-1-08 of the Administrative Code be waived so that the connector building to be constructed between Biological Sciences and Parks Hall may be named for an officer or employee of the University or the State of Ohio who has not been retired from such position for three years.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

NAMING OF BUILDING

Resolution No. 90-129

Synopsis: The Academic Affairs Committee recommended the approval of the following naming of building.
NAMING OF BUILDING (contd)

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the construction of the Biological Science - Parks Hall connector building is scheduled to commence July 1991; and

WHEREAS Vernal G. Riffe, Jr., has served as an Ohio legislator since 1958, the longest term of any Ohio legislator; and

WHEREAS Vern Riffe is the current Speaker of the Ohio House of Representatives, having held this office since 1975, the longest term of any Ohio Speaker; and

WHEREAS during his thirty years of dedicated public service, Vern Riffe has become known as one of the most effective and skillful political leaders in Ohio's history; and

WHEREAS Vern Riffe has been a consistent friend and supporter of higher education and of Ohio State, and has supported many initiatives that were key to Ohio State; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the connector building to be constructed between Biological Sciences and Parks Hall, be named in honor of Vernal G. Riffe, Jr.:

NOW THEREFORE

BE IT RESOLVED, That hereafter the connector building between 484 West Twelfth Avenue and 500 West Twelfth Avenue shall bear the name "Vernal G. Riffe, Jr., Building."

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--

PERSONNEL ACTIONS

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the May 3, 1990 meeting of the Board, including the following Concurrent Appointments, Change in Title, Appointment of Chairperson of Department, Reappointment of Chairpersons of Departments and Divisions and Director of Center, Professional Improvement Leaves, Professional Improvement Leave--Change in Dates, Professional Improvement Leave--Cancellation, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved.
PERSONNEL ACTIONS (contd)

Concurrent Appointments

Name: HOWARD L. GAUTHIER  
Title: Acting Vice Provost  
Office: International Affairs  
Effective: July 1, 1990  
Salary: N/A  
Present Assignment: Associate Provost, Office of Academic Affairs and Professor, Department of Geography (no change)

Name: DONALD E. GLOWER, SR.  
Title: Acting Vice President  
Office: University Communications and Development  
Effective: July 1, 1990  
Salary: $122,280.00  
Present Assignment: Dean, College of Engineering (no change)

Change in Title:

Name: WILLIAM J. SHKURTI  
Title: Acting Vice President  
Office: Finance  
Effective: August 1, 1990  
Salary: $90,000.00  
Present Position: Acting Assistant Vice President, Office of University Budget Planning

Appointment of Chairperson of Department

October 1, 1990 through September 30, 1994

Slavic and East European Languages and Literatures  
Charles E. Gribble

Reappointment of Chairpersons of Departments and Divisions and Director of Center

July 1, 1990 through September 30, 1990

Spanish and Portuguese  
Salvador Garcia*

July 1, 1990 through June 30, 1993

Division of Pharmacology  
Dennis R. Feller  
Division of Pharmacy Practice  
Richard H. Reuning

July 1, 1990 through June 30, 1994

Anatomy  
James S. King  
Anesthesiology  
John S. McDonald  
Medical Microbiology and Immunology  
M. Ronald Glaser  
Mershon Center  
Charles F. Hermann

*Acting Chair
PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments and Divisions and Director of Center (contd)

July 1, 1990 through June 30, 1994 (contd)

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pediatrics</td>
<td>Grant Morrow III</td>
</tr>
<tr>
<td>Physiological Chemistry</td>
<td>Gerald P. Brierley</td>
</tr>
</tbody>
</table>

October 1, 1990 through September 30, 1991

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td>French and Italian</td>
<td>Charles G. Williams*</td>
</tr>
<tr>
<td>Plant Biology</td>
<td>Ralph E. J. Boerner*</td>
</tr>
</tbody>
</table>

October 1, 1990 through September 30, 1994

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life Span Process</td>
<td>Carol L. Kennedy</td>
</tr>
</tbody>
</table>

*Acting Chairs

Professional Improvement Leaves

ROBERT B. BROWN, Associate Dean and Professor, Department of Mathematics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

JAMES C. GARLAND, Chairperson and Professor, Department of Physics, effective January 1, 1991 through June 30, 1991.

B. CHANDRASEKARAN, Professor, Department of Computer and Information Science, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

LIANG-SHIH FAN, Professor, Department of Chemical Engineering, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

JOSEPH C. FERRAR, Professor, Department of Mathematics, effective Winter Quarter and Spring Quarter 1991.

BELTON M. FLEISHER, Professor, Department of Economics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

ERWIN F. HEBNER, Professor, Department of Art, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.


MICHAEL J. KINDRED, Professor, College of Law, effective Spring Semester 1991.

LEE M. MODJESKA, Professor (The Joseph S. Platt-Porter, Wright, Morris and Arthur Professorship in Law), College of Law, effective Spring Semester 1991.

SHOICHIRO NAKAMURA, Professor, Department of Mechanical Engineering, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

DONALD O. PARSONS, Professor, Department of Economics, effective Winter Quarter, Spring Quarter and Autumn Quarter 1991.

ARNE E. SLETTEBAK, Professor, Department of Astronomy, effective Winter Quarter and Spring Quarter 1991.

PHILIP D. STEWART, Professor, Department of Political Science, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

LOUIS SUCHESTON, Professor, Department of Mathematics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

W. WAYNE TALARZYK, Professor, Academic Faculty of Marketing, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

ROBERT H. WAGONER, Professor, Department of Materials Science and Engineering, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

JOHN P. WANOUS, Professor, Academic Faculty of Management and Human Resources, effective Autumn Quarter 1990.

TIEN H. WU, Professor, Department of Civil Engineering, effective Winter Quarter 1991.

KAREN A. BELL, Associate Professor, Department of Dance, effective Winter Quarter and Spring Quarter 1991.

HENRY R. BUSBY, Associate Professor, Department of Mechanical Engineering, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

A. TERRENCE CONLISK, Associate Professor, Department of Mechanical Engineering, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

SCOTT FALKENTHAL, Associate Professor, Department of Molecular Genetics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

ZBIGNIEW FIEDOROWICZ, Associate Professor, Department of Mathematics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

MARTHA M. GARLAND, Associate Professor, Department of History, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

ANGELIKA R. GERBES, Associate Professor, Department of Dance, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

JULIUS G. GOLDBERG, Associate Professor, Department of Mathematics (Marion Campus), effective Winter Quarter, Spring Quarter, and Autumn Quarter 1991.

NICHOLAS G. HALL, Associate Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

GEORG R. HEIMDAL, Associate Professor, Department of Art, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

DEBORAH A. HORRELL, Associate Professor, Department of Art, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

HARRIS P. KAGAN, Associate Professor, Department of Physics, effective Winter Quarter, Spring Quarter and Autumn Quarter 1991.

E. LOUIS LANKFORD, Associate Professor, Department of Art Education, effective Autumn Quarter 1990 and Winter Quarter 1991.

JOSINA M. MAKAU, Associate Professor, Department of Communication, effective Autumn Quarter 1990 and Winter Quarter 1991.

SANDRA A. MAMRAK, Associate Professor, Department of Computer and Information Science, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

JOHN A. NEGULESCO, Associate Professor, Department of Anatomy, effective September 1, 1990 through March 31, 1991.

ARNON E. REICHERS, Associate Professor, Academic Faculty of Management and Human Resources, effective Autumn Quarter 1990 and Winter Quarter 1991.

JUNKO SHIGEMITSU, Associate Professor, Department of Physics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

HARVEY G. SHULMAN, Associate Professor, Department of Psychology, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

NEELAM SOUNDARARAJAN, Associate Professor, Department of Computer and Information Science, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.


VIRGINIA M. TIEFEL, Associate Professor, University Libraries, effective January 3, 1991 through March 18, 1991.

SIA K. WONG, Associate Professor, Department of Mathematics, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

CONRAD G. SMITH, Assistant Professor, School of Journalism, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

ANNMARIE A. ZAHARLICK, Assistant Professor, Department of Anthropology, effective Winter Quarter and Spring Quarter 1991.
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leave--Change in Dates

DONALD L. PALMQUIST, Professor, Department of Dairy Science, change leave from April 15, 1990 through December 31, 1990 to July 1, 1990 through October 31, 1990.

Professional Improvement Leave--Cancellation

JOHN C. HUNTINGTON, Professor, Department of History of Art, effective Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

Promotions and Tenure

COLLEGE OF AGRICULTURE

PROMOTION TO PROFESSOR

E. Dean Baldwin, Agricultural Economics Approved - 7/1/90
James E. Beuerlein, Agronomy Approved - 7/1/90
Grady William Chism III, Food Science and Technology Approved - 10/1/90
Warren A. Dick, Agronomy Approved - 7/1/90
Stanley F. Gorski, Horticulture Approved - 7/1/90
John B. Lindamood, Food Science and Technology Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Janet Lee Henderson, Agricultural Education Approved - 10/1/90
Eugene Jones, Agricultural Economics Approved - 10/1/90
Albert R. Miller, Horticulture Approved - 7/1/90
Diane Doud Miller, Horticulture Approved - 10/1/90
William F. Pope, Animal Science Approved - 7/1/90
Emmalou Van Tilburg, Agricultural Education Approved - 7/1/90

TENURE

Robert M. Rupp, ATI Approved - 10/1/91

COOPERATIVE EXTENSION SERVICE

PROMOTION TO ASSOCIATE PROFESSOR

Frank R. Lichtkoppler Approved - 7/1/90
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COOPERATIVE EXTENSION SERVICE (contd)

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Lisa K. Bradley  
Michael P. Hogan  
Carol S. Miller  
Stephen D. Schumacher  
Susie J. Skinner  
Elizabeth J. Wingerter
Approved - 7/1/90
Approved - 7/1/90 and 7/16/91
Approved - 7/1/90 and 2/18/92
Approved - 7/1/90 and 10/1/91
Approved - 7/1/90 and 11/1/91
Approved - 7/1/90 and 7/16/91

PROMOTION TO ASSISTANT PROFESSOR

Julie A. Dalzell  
Dennis W. Hall  
Vicki J. Schwartz
Approved - 7/1/90
Approved - 7/1/90
Approved - 7/1/90

TENURE

Jeffrey E. King
Approved - 1/2/92

COLLEGE OF THE ARTS

PROMOTION TO PROFESSOR

Robert L. Arnold, Art Education  
Eileen C. Davis, School of Music  
Nancy J. MacGregor, Art Education  
Glenn S. Rothman, Art, Marion  
Christine B. Verzar, History of Art
Approved - 7/1/90
Approved - 10/1/90
Approved - 10/1/90
Approved - 10/1/90
Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Lynn A. Corbin Costanza, School of Music, Marion  
Timothy A. Gerber, School of Music  
John R. Giffin, Dance  
Timothy J. McNiven, History of Art, Marion  
Margarita L. Ophee-Mazo, School of Music  
Lois A. Rosow, School of Music
Approved - 10/1/90
Approved - 10/1/90
Approved - 10/1/90
Approved - 10/1/90
Approved - 10/1/90
Approved - 10/1/90
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF BIOLOGICAL SCIENCES

PROMOTION TO PROFESSOR

Richard F. Mortensen, Microbiology  Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Darrell R. Galloway, Microbiology  Approved - 7/1/90
Fred David Sack, Botany  Approved - 10/1/90

COLLEGE OF BUSINESS

PROMOTION TO PROFESSOR

Riad A. Ajami, Management and Human Resources  Approved - 10/1/90
Jerald Greenberg, Management and Human Resources  Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Deborah A. Ballam, Finance  Approved - 10/1/90

COLLEGE OF DENTISTRY

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Anthony G. Gegauff, Restorative and Prosthetic Dentistry  Approved - 7/1/90
Elizabeth Ching-Yue Kao, Restorative and Prosthetic Dentistry  Approved - 7/1/90
Raymond A. Kuthy, Community Dentistry  Approved - 7/1/90
Peter Wing-Hong Ngan, Orthodontics  Approved - 7/1/90
Joseph B. Travers, Oral Biology  Approved - 7/1/90
William F. Waggoner, Pediatric Dentistry  Approved - 7/1/90
John D. Walters, Periodontology  Approved - 7/1/90
Mark C. Whitehead, Oral Biology  Approved - 7/1/90

COLLEGE OF EDUCATION

PROMOTION TO PROFESSOR

Virginia G. Allen, Educational Theory & Practice, Marion  Approved - 10/1/90
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF EDUCATION (contd)

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Richard D. Howell, Educational Policy and Leadership  
Brad L. Mitchell, Educational Policy and Leadership  
Mary M. O'Sullivan, Health, Physical Education, and Recreation

TENURE

Richard C. Remy, Educational Studies

COLLEGE OF ENGINEERING

PROMOTION TO PROFESSOR

Richard N. Christensen, Mechanical Engineering  
Prabhat K. Gupta, Materials Science and Engineering  
Ali Keyhani, Electrical Engineering  
Seppo A. Korpela, Mechanical Engineering  
L. James Lee, Chemical Engineering  
Sandra A. Mamrak, Computer and Information Science  
Jack L. Nasar, City and Regional Planning  
Stanislav I. Rokhlin, Welding Engineering  
Krishnaswamy Srinivasan, Mechanical Engineering

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Thomas E. Blue, Mechanical Engineering  
James D. Cawley, Materials Science and Engineering  
Jane M. Fraser, Industrial and Systems Engineering  
Chia-Hsiang Menq, Mechanical Engineering  
Umit S. Ozkan, Chemical Engineering  
Patrick Roblin, Electrical Engineering  
Ponnuswamy Sadayappan, Computer and Information Science  
Mohammad Samimy, Mechanical Engineering  
David D. Woods, Industrial and Systems Engineering

COLLEGE OF HUMAN ECOLOGY

PROMOTION TO PROFESSOR

Marion L. Cremer, Human Nutrition and Food Management
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF HUMANITIES

PROMOTION TO PROFESSOR

Judith Mayne, French and Italian Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Samuel Amell, Spanish and Portuguese Approved - 10/1/90
Mark E. Conroy, English Approved - 10/1/90
Bruce A. Heiden, Classics Approved - 10/1/90
Yung Hee Kwon, East Asian Languages and Literatures Approved - 10/1/90
Eve Rebecca Levin, History Approved - 10/1/90
Kitty O. Locker, English Approved - 10/1/90
Charles D. Minahen, French and Italian Approved - 10/1/90
Terrell A. Morgan, Spanish and Portuguese Approved - 10/1/90
David A. Odden, Linguistics Approved - 10/1/90
Terence M. Odlin, English Approved - 10/1/90
Mark W. Roche, German Approved - 10/1/90
Phoebe S. Spinrad, English Approved - 10/1/90
Galal L. Walker, East Asian Languages and Literatures Approved - 10/1/90
Sabra J. Webber, Judaic and Near Eastern Languages and Literatures Approved - 10/1/90

TENURE

John F. Guilmartin, Jr., History Approved - 10/1/91

COLLEGE OF LAW

PROMOTION TO PROFESSOR

Arthur F. Greenbaum Approved - 8/16/90
Sheldon W. Halpern Approved - 8/16/90
LeRoy Pernell Approved - 8/16/90

PROMOTION TO PROFESSOR and TENURE

Barbara Rook Snyder Approved - 8/16/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

David Williams II Approved - 8/16/90
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

UNIVERSITY LIBRARIES

PROMOTION TO ASSOCIATE PROFESSOR

Noelle Van Pulis
Approved - 7/1/90

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Wesley L. Boomgaarden
Approved - 7/1/90 and 10/15/91
Martin P. Jamison
Approved - 7/1/90 and 12/10/91
Carol A. Mularski
Approved - 7/1/90 and 12/3/91
Graham R. Walden
Approved - 7/1/90 and 12/1/91

TENURE

Melvon L. Ankeny
Approved - 7/16/91
Heidi E. Hanson
Approved - 7/16/91

COLLEGE OF MATHEMATICAL AND PHYSICAL SCIENCES

PROMOTION TO PROFESSOR

William I. Ausich, Geology and Mineralogy
Approved - 10/1/90
Bruce E. Bursten, Chemistry
Approved - 10/1/90
Ruth M. Charney, Mathematics
Approved - 10/1/90
Franklin D. Demana, Mathematics
Approved - 10/1/90
M. Gregory Forest, Mathematics
Approved - 10/1/90
Harris P. Kagan, Physics
Approved - 10/1/90
Bruce R. Patton, Physics
Approved - 10/1/90
Daniel B. Shapiro, Mathematics
Approved - 10/1/90
Robert J. Stanton, Mathematics
Approved - 10/1/90
Ming-Daw Tsai, Chemistry
Approved - 10/1/90
Ian M. Whillans, Geology and Mineralogy
Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Luis G. Casian, Mathematics
Approved - 10/1/90
Daniel L. Cox, Physics
Approved - 10/1/90
James W. Downs, Geology and Mineralogy
Approved - 10/1/90
Yuval Flicker, Mathematics
Approved - 10/1/90
Marita M. King, Chemistry
Approved - 10/1/90
Bishun D. Pandey, Mathematics, Marion
Approved - 10/1/90
Dennis K. Pearl, Statistics
Approved - 10/1/90
Alice Silverberg, Mathematics
Approved - 10/1/90
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF MEDICINE

PROMOTION TO PROFESSOR

Jay D. Iams, Obstetrics and Gynecology
Stephen A. Koff, Surgery
Richard W. O'Shaughnessy, Obstetrics and Gynecology
Douglas A. Rund, Preventive Medicine
Dorothy E. Schumm, Physiological Chemistry
William B. Zipf, Pediatrics

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

George E. Billman, Physiology
Barbara A. Cromer, Pediatrics
Nancy B. Hansen, Pediatrics
Charles R. Hille, Physiological Chemistry
Rebecca D. Jackson, Internal Medicine
John D. Mahan, Pediatrics
Walter J. Mysiw, Physical Medicine
William S. Pease, Physical Medicine
Robert M. Snapka, Radiology
Arthur R. Strauch, Anatomy
Gordon M. Wardlaw, Allied Medical Professions
Mark D. Wewers, Internal Medicine

PROMOTION TO ASSOCIATE PROFESSOR

Patrick J. Fahey, Family Medicine
Robert M. Guthrie, Family Medicine
Jack W. Smith, Jr., Pathology

PROMOTION TO ASSISTANT PROFESSOR

Mark R. Dahl, Anesthesiology
Merida L. Johns, Allied Medical Professions

TENURE

Maria Hadjiconstantinou-Neff, Psychiatry
Christos Kanelitsas, Radiology
John J. Wheller, Pediatrics
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF MEDICINE

CLINICAL FACULTY

PROMOTION TO CLINICAL PROFESSOR

Thomas P. Beach, Anesthesiology Approved - 7/1/90
Jerry Thomas Guy, Internal Medicine Approved - 7/1/90
Carole A. Miller, Surgery Approved - 7/1/90

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

Frederick R. Bode, Internal Medicine Approved - 7/1/90
Kenneth V. Cahill, Ophthalmology Approved - 7/1/90
Christopher Copeland, Obstetrics and Gynecology Approved - 7/1/90
Alan B. Levy, Psychiatry Approved - 7/1/90
Thomas V. Lloyd, Radiology Approved - 7/1/90
J. David Martino, Anesthesiology Approved - 7/1/90
Richard G. Orlando, Ophthalmology Approved - 7/1/90
Bhagwan Satiani, Surgery Approved - 7/1/90

PROMOTION TO CLINICAL ASSISTANT PROFESSOR

David C. Bell, Obstetrics and Gynecology Approved - 7/1/90
John L. Fortney, Pediatrics Approved - 7/1/90
John R. Raabe, Internal Medicine Approved - 7/1/90
Gary C. Reid, Obstetrics and Gynecology Approved - 7/1/90
Michael E. Ruff, Surgery Approved - 7/1/90
Paul David Ruff, Internal Medicine Approved - 7/1/90

COLLEGE OF MEDICINE

REGULAR CLINICAL FACULTY

PROMOTION TO ASSOCIATE PROFESSOR OF CLINICAL MEDICINE

Timothy A. Galbraith, Surgery Approved - 7/1/90
Bhagwandas Gupta, Anesthesiology Approved - 7/1/90
Norman Paul Hudson, Internal Medicine Approved - 7/1/90
Sedigheh Keyhani-Rofagha, Pathology Approved - 7/1/90
Rao P. Lingam, Anesthesiology Approved - 7/1/90
Richard N. Nelson, Preventive Medicine Approved - 7/1/90
Robert J. Ragosin, Radiology Approved - 7/1/90
Ronald J. Siegle, Otolaryngology Approved - 7/1/90
Jeffrey E. Weiland, Internal Medicine Approved - 7/1/90
PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF NURSING

PROMOTION TO PROFESSOR

Mary G. MacVicar, Family and Community Nursing Approved - 10/1/90

COLLEGE OF OPTOMETRY

PROMOTION TO PROFESSOR

Leo G. Carney
Ronald Jones
Approved - 7/1/90
Approved - 7/1/90

COLLEGE OF OPTOMETRY

(Clinicals)

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

Robert D. Newcomb
William O. Schuller
Approved - 7/1/90
Approved - 7/1/90

COLLEGE OF PHARMACY

PROMOTION TO PROFESSOR

Robert W. Brueggemeier, Medicinal Chemistry
Approved - 7/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Robert W. Curley, Jr., Medicinal Chemistry
Dennis B. McKay, Pharmacology
Approved - 7/1/90
Approved - 7/1/90

COLLEGE OF PHARMACY

(Clinicals)

PROMOTION TO CLINICAL PROFESSOR

Timothy D. Moore, Pharmacy Practice
Approved - 7/1/90
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF PHARMACY (contd)

(Clinicals) (contd)

PROMOTION TO CLINICAL ASSOCIATE PROFESSOR
Kenneth M. Hale, Pharmacy Practice Approved - 7/1/90

PROMOTION TO CLINICAL ASSISTANT PROFESSOR
Nicholas A. Votolato, Pharmacy Practice Approved - 7/1/90

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

PROMOTION TO PROFESSOR
Anthony J. Arnfield, Geography Approved - 10/1/90
Paul D. Evans, Economics Approved - 10/1/90
Margaret G. Hermann, Political Science Approved - 10/1/90
Anthony Mughan, Political Science Approved - 10/1/90
Morton E. O’Kelly, Geography Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR with TENURE
Jiří Hochman, School of Journalism Approved - 10/1/90
Richard W. Yerkes, Anthropology Approved - 10/1/90

PROMOTION TO ASSOCIATE PROFESSOR
Conrad G. Smith, School of Journalism Approved - 10/1/90

TENURE
Stavros T. Constantinou, Geography, Mansfield Approved - 10/1/91
Pamela J. Creedon, School of Journalism Approved - 10/1/91

COLLEGE OF SOCIAL WORK

PROMOTION TO PROFESSOR
Virginia E. Richardson Approved - 10/1/90
Beverly G. Toomey Approved - 10/1/90
June 1, 1990 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

COLLEGE OF VETERINARY MEDICINE

PROMOTION TO PROFESSOR

Linda J. Saif, Veterinary Preventive Medicine
Richard A. Sams, Veterinary Clinical Sciences

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Richard M. Bednarski, Veterinary Clinical Sciences
Kenneth W. Kwochka, Veterinary Clinical Sciences

PROMOTION TO ASSOCIATE PROFESSOR

Susan E. Johnson, Veterinary Clinical Sciences

TENURE

Leo M. Schmall, Veterinary Clinical Sciences

Emeritus Titles

WELDON E. IHRIEG, Office of Finance, with the title Vice President Emeritus, effective September 1, 1990.

THOMAS L. TOBIN, Office of University Communications and Development, with the title Vice President Emeritus, effective April 1, 1991.

ANDREW J. BROEKEMA, College of The Arts - Administration, with the title Dean Emeritus, effective July 1, 1990.

EDWARD P. J. CORBETT, Department of English, with the title Professor Emeritus, effective July 1, 1990.

CHARLES A. CSURI, Department of Art Education, with the title Professor Emeritus, effective July 1, 1990.

JOHN C. MESSENGER, Department of Anthropology, with the title Professor Emeritus, effective July 1, 1990.

ANDREW G. OLDENQUIST, Department of Philosophy, with the title Professor Emeritus, effective July 1, 1990.

MCHENRY R. BOATWRIGHT, School of Music, with the title Associate Professor Emeritus, effective July 1, 1990.
PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

WILLIAM E. MCCRAY, Department of Black Studies, with the title Associate Professor Emeritus, effective July 1, 1990.

CAROLE R. ROGEL, Department of History, with the title Associate Professor Emeritus, effective July 1, 1990.

DANA F. VIBBERTS, Department of Photography and Cinema, with the title Associate Professor Emeritus, effective July 1, 1990.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

RESOLUTIONS IN MEMORIAM

Resolution No. 90-131

Synopsis: The Academic Affairs Committee recommended the approval of Resolutions in Memoriam for Douglas E. Brown and George W. Wharton.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Douglas E. Brown

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 21, 1990, of Douglas E. Brown, Assistant Professor Emeritus in the College of Dentistry, Section of Restorative and Prosthetic Dentistry.

A native of Columbus, Ohio, Dr. Brown graduated from The Ohio State University in 1946, and received his D.D.S. degree in 1950.

From 1956 to 1970, he was Chief of Dental Services at Orient State Institute. Dr. Brown was appointed as an Instructor in the College of Dentistry in 1970 and promoted to Assistant Professor in 1971. He developed curriculum material, conducted lectures and directed laboratory instruction in pre-clinical removable partial prosthodontics. Upon his retirement in 1988, Dr. Brown was named Assistant Professor Emeritus.

Dr. Brown was a member of Delta Sigma Delta Dental Fraternity where he served as Vice President in 1975; President in 1976; and was Treasurer of their House Corporation. He served on the Admissions Committee for the College of Dentistry, and was a member of the Columbus Dental Society and the Ohio Dental Association.

Dr. Brown will long be remembered by his many friends and associates at The Ohio State University.
RESOLUTIONS IN MEMORIAM (contd)

Douglas E. Brown (contd)

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

George W. Wharton

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 4, 1990, of George W. Wharton, Professor Emeritus in the Department of Entomology.

Dr. Wharton was born on January 25, 1914, in Belleville, New Jersey. He received a B.S. in 1935 and a Ph.D. in 1939, both from Duke University. He served in the United States Navy during World War II where he was first a Biologist with the Norfolk Naval Shipyard and later an acarologist with the Rockefeller Group at NAMRU-2 in the Pacific war zone.

Dr. Wharton was a pioneer in studies of the acari—ticks and mites. In the years following World War II, he and colleague E. W. Baker became the leaders of the then-developing American school of acarology. Their influence affected the professional careers of most of the acarologists working today in North America and throughout the world. The collaboration of Baker and Wharton resulted in the historic publication Introduction to Acarology in 1952.

Dr. Wharton was the author of 129 publications. He served on numerous councils and editorial boards of various professional societies.

Dr. Wharton was the co-founder of the Summer Teaching Program in Acarology at Duke in 1951. He later transferred the Summer Program with him when he accepted the position of head of the Zoology Department at the University of Maryland in 1953. In 1961, he became chairman of the Department of Zoology and Entomology at Ohio State University and served in that position until 1968. Dr. Wharton, also established the Acarology Laboratory and the Summer Program at Ohio State. He served as Director of the Acarology Laboratory until his retirement in 1976. His involvement in research and teaching continued for many years.

This year marks the 40th anniversary of the Acarology Summer Program, which has given hundreds of participants from around the world their introduction and continued education in acarology. Dr. Wharton's colleagues regard it as his most important legacy. Many doctoral students remember him for his life-long concern with quality education and for the teacher's responsibility to his students.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

--0--
Ms. Paige:

We began with a report from Sue Green in the Office of Student Life. She conveyed to the Board that rape is a serious problem in our society and on our campus. At The Ohio State University, as in the rest of society, our conception of rape is often based upon stereotypes rather than a realistic picture of how rape happens. We know that rape is overwhelmingly a crime committed by men who know their victims and is called acquaintance rape. Many women who are raped do not report the crime to the police. Research by Dr. Mary Koss found that 15% of college women had experienced rape. If we accept that those figures, and apply them to Ohio State, we can estimate that rape has effected approximately 4,300 of our female college students. It was also reported that rape is a crime occurring between people of the same race. The Bureau of Justice Statistics reports that white women were raped by white men in 87% of the cases, and Afro-American women were raped by Afro-American men in 92% of the cases.

The Rape Education and Prevention Program at Ohio State addresses this problem through education about the stereotypes about rape, effective prevention strategies for women and men, and supporting women who have already experienced rape or other forms of sexual assault. This education takes place in multiple forums on our campus and utilizes a culturally-specific approach in order to reach all constituencies at The Ohio State University.

After Ms. Green's report, we heard reports from the student government leaders:

Mr. Steve Sloan:

First, I just want to make a few comments. I personally know three people who have been raped. One person fits the more typical stereotype of rape, and the other two were raped by people they knew -- date situations. It is a real serious issue that people live with on a day-to-day basis.

Next, I want to congratulate Dave for becoming the next student on the Board of Trustees. Professional students are particularly pleased, once again, and the medical students even more pleased. Dave however, left the professional organization in a little bit of a bind since he was going to be President, so he has convinced me to go ahead and take over. We are happy to have him on the Board. Once again, he is someone I know well and look forward to working with. I think he will be an excellent Trustee and will be able to represent the undergraduates, graduates and professional students. He was a very active undergraduate here.

The other issue that I would like to talk about is the organization itself. I was at a University Senate Steering Committee meeting where we heard reports from various committees. I was very glad to hear that professional students were attending those various committee meetings and were being vocal. Some of the chairpersons of the committees felt that the professional students were being too vocal. I was just glad to hear that they were actually attending the meetings. I think that the professional organization is in good shape, and I look forward to working next year on some of our important issues.
Mr. Sloan: (contd)

Of particular concern to us, is the tuition increase. We have worked very hard trying to educate the University Senate Fiscal Committee and the members of the University community at-large that professional students really feel the burden every time our tuition increases. We really don't like our tuition increasing double the rate of the undergraduates' tuition increases. We really hope that won't happen any longer, and we will continue to work on that.

Other things that we will be working on is the never-ending parking issue. We heard a report in the Steering Committee about parking. It is certainly a very difficult issue, and one that everyone in the University has feelings about. Everyone wants to have more parking spaces available.

The other issue is something that we worked on pretty hard last year. We are trying to get ticketing priorities for professional and graduate students for athletic events. Right now, we don't fair very well in ticket priorities, and we are going to try to improve that. We hope to give them some ideas on how they can rank professional and graduate students.

So, I look forward to working with you again for another year. If you have any questions for me, feel free to ask? Thank you.

Ms. Paige:

Thank you. I would like to call on Luke Evans.

Mr. Luke Evans:

Good morning. I passed around a recent issue of the Graduate Voice. In there, we started something a little bit new. We have a supplement that we had in previous years which shows how graduate students can participate in the government structure of this University. We expanded it from 2 pages to 4, because we thought it would be useful to describe the University Senate and what they do, the Council of Research and Graduate Studies and what they do; as well as the University-wide committees, and the Council of Graduate Students. We are hoping, too, that we may be able to reprint this during the summer and perhaps even in the fall so students who didn't see it the first time around can see how they can participate. We do hear from graduate students that they want to participate and often ask how. I remember my first few years at this University -- I didn't even know about the Council of Graduate Students until my third year here. I thought that my dollar contribution would go to USG. So, we are trying to put forth an educational effort here to encourage more graduate students to participate.

I noticed about a year ago that in front of the catalog of the Ohio State Course Listings there is a little faculty rule that states "that for every hour academic credit that a student receives, they are expected to put in at least two hours of outside study to get a grade of C." So that implies that if students want to get A's and B's, they need to put in 3 or 4 hours of outside studying for every academic hour. I just was reminded when I look back over this last year how important it is for the quality of life for our students, because most learning probably takes place outside the classroom, in libraries and study rooms. And how important this quality of life is for the overall educational experience of students. I think though -- and especially with
the recent news we had about the Afro-American situation, and most recently the Gay-Lesbian situation -- that we all work very hard to create an atmosphere at this University where we can study, learn, grow, and not be in fear of our lives as we move around campus. Some of these efforts to improve the quality of everyday life here at the University may require some special programs, but I think a lot of it is just a change of attitude with the people we have working here already. We need to be sure the decisions we are making have a positive impact on the quality of life as well.

Finally, this is my last opportunity to report, and I just want to thank you for the opportunity to speak before you candidly about the views of graduate students. I think, too, that in the future, the President should also have the opportunity to speak before the full Board once in awhile. I think that would be appropriate.

I would also like to introduce the new officers for next year: Benetta Lucius, the new President, she spoke before you several months ago; and Randy Rush, Vice President. Both of those people are capable, they bring 5 years of experience in CGS to the Council. We have an excellent officer team. The Treasurer and Secretary are not here, but they have shown that they are dedicated. They have participated in the University Senate and they have been our most active participants. So we will have an excellent team next year to represent the interests of graduate students.

Mr. Kessler:

As we have talked before, I think that we have changed the format of the Board meetings, which I agree with, so that the Committees operate better. I think it is working. That is the place for the students to be heard, and then the Committee reports it to the full Board. So, I think that it is just the direction that we've changed. We do now also have two Student Trustees on our Board that we didn't have then, so I am not sure that I would agree with that.

Ms. Paige:

On behalf of the Board of Trustees, I would like to take this opportunity, Luke, to thank you for a very interesting year. I know it has gotten hot in this room a couple of times with the Jones Tower issue and the tuition increase issue, but we all need to remember that the main interest of the community is to sensitize the Board to the needs of the students. And, I truly think that you accomplished that goal. We have an expression of appreciation for you:

**EXPRESSION OF APPRECIATION**

Resolution No. 90-132

WHEREAS during the past year Mr. Luke Evans has served as President of the Council of Graduate Students; and

WHEREAS he has performed his duties and assignments in an noteworthy manner; and
EXPRESSION OF APPRECIATION (contd)

WHEREAS Luke has worked tirelessly to apprise the Board of concerns of special interest to the graduate students; and

WHEREAS his resolve, dedication, and support of this University has been truly commendable:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Mr. Luke Evans its sincere appreciation and gratitude for his dedication and loyalty to this University, and conveys to him its very best wishes for the future.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Ms. Paige:

We'll move on to our Undergraduate Student report by Mr. Mike Clark.

Mr. Mike Clark:

Good morning. I would like to take this opportunity to introduce myself. My name is Michael Clark and I am a fourth year student in Industrial and Systems Engineering. I plan to graduate approximately one year from now. I live in Convent Station, New Jersey, which is right outside of Manhattan. I have a long history of my family going to Ohio State -- I am the third generation, so I am really excited about being here.

I just want to list a couple of goals that we have and some accomplishments we have made in USG since taking office on May 16. We have distributed close to 1,000 applications for the various positions that the Undergraduate Student Government has to offer across the campus. We took those to the various college offices, and tried to get to the largest percentage of student organizations that we could. I believe there are around 630 student organizations, so it is difficult to reach every single one. We ran a couple of ads in the Lantern and we have had an incredible response to these ads. We received almost 200 applications. So, as I said, we have been in office since May 16, and it has been difficult to evaluate these 200 applications within two weeks time. We want to try and let people know where we stand and what we would like to do before we leave for the summer. We don't want to leave people hanging -- they might lose interest. We are also doing this in conjunction with the end of the quarter, finals, and all of these parties coming down.

We are also waiting to find out who our new adviser is going to be. Dr. Asher was the adviser last year, but we will be getting a new one this year. Hopefully, we will have a decision by the middle of the summer on who is going to take over that role.

For this summer, obviously one of our goals is campus safety. We are going to try and work with Mr. Stinziano's program. We have goals with Voter Registration, coming up in the fall. And also, we are going to try and attend a lot of the student government conferences that are offered in order to gain ideas and insights on how we can improve ourselves. Again, we have only been in office a couple of weeks, and it has been very difficult because we are pushed for time.
June 1, 1990 meeting, Board of Trustees

STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Clark: (contd)

I would also like to introduce Jamie Day, who is our Vice President. Speaking for myself, I am very excited about this. I think this is going to be an opportunity for me to grow as a person and, hopefully, gain some insight and experiences to help me pursue my goals for the future. We see the future as being bright for us. Today, as a matter of fact, we got some positive publicity in the Lantern, which I couldn't believe! So I think that we have something started. At this time, I would be happy to answer any questions?

Mr. Tonnies:

For the dispersal of the applications, do you have to go through all those different student organizations? There was a program in USG for a number of years, and I don't know what its role was last year -- the Council of Presidents?

Mr. Clark:

That is correct.

Mr. Tonnies:

Two years ago, I know, Ms. Lora Stilke, who is now in Vet Med, really tried to make it into a functional group. What is your commitment to trying to maybe get those -- it is hard to get 600 presidents to one meeting, obviously, but I think that would be a good organization to share ideas with each other.

Mr. Clark:

We agree. Again, we haven't quite decided what we are going to do that with yet. We have some very dynamic individuals that are showing interest for that position now. Yes, we do want to work closely with them. If we could just get 1/6 of those organizations, that would be wonderful. As I said, we haven't had a chance actually to sit down and list all of those goals right now. But that is one of our top priorities, along with Campus Safety. Thank you, very much.

--0--

AGRICULTURAL AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning the Agricultural Affairs Committee received a report on the Curriculum Reform in the Agriculture and Natural Resources. Dr. Kirby Barrick, Chair of the Special Committee for Undergraduate Curriculum Review in Agriculture appointed by the Provost, and Dr. Robert Roth, Assistant Director of the School of Natural Resources, described an updated curriculum for students earning the Bachelor of Science in Agriculture and the Bachelor of Science in Natural Resources. A revised curriculum is to be initiated by Autumn 1990, which follows the new general education model which is being implemented for all undergraduate students.

The revised curriculum is designed so that the graduates of Agriculture and Natural Resources possess the following attributes:
AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)

Ms. Casto: (contd)

1) An understanding of the biological science, physical science, social science, and technology bases related to food, agriculture, and the environment.

2) An understanding of the interactions of culture, natural and human resources, technology and public policy in the development of agricultural systems worldwide.

3) An ability to make ethical judgments about critical issues and to prepare and accept changes.

4) An ability to identify and solve problems, communicate solutions, and provide leadership.

Faculty in all departments in the College of Agriculture and the School of Natural Resources are currently revising majors and developing new majors for students pursuing the Bachelor of Science in Agriculture or Natural Resources.

One thing that I did want to say was that the enrollment in the School of Natural Resources is up which was nice to see. Because, of course, everyone knows that is currently a very significant issue -- our water and our air. We have kept up with important issues in this country. Also, this program should be fully implemented within seven years. I am glad to see that we are moving forward on. That completes my report.

Mrs. Bowser:

Did you mention the component in the foreign language?

Ms. Casto:

There is a required foreign language component. They can test out of it if they do international studies abroad in different areas. I think this is very significant. I think we need to promote travel because the world has become much smaller and our graduates will need to be educated in several different cultures.

(See Appendix LXXIV for a complete text of the Bachelor of Science in Agriculture and Bachelor of Science in Natural Resources, page 1223.)

--0--

FISCAL AFFAIRS COMMITTEE REPORT

Mr. Teaford:

The Committee is recommending approval for the following resolutions:
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS
Resolution No. 90-133

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for April 1990.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of April 1990 be approved.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR APRIL 1990

<table>
<thead>
<tr>
<th>Source</th>
<th>No of Projects</th>
<th>Support Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Ohio State University Research Foundation</td>
<td>98</td>
<td>$9,452,093.00</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>47</td>
<td>$322,517.00</td>
</tr>
<tr>
<td>Total</td>
<td>145</td>
<td>$9,774,610.00</td>
</tr>
</tbody>
</table>

The Ohio State University Development Fund

Establishment of Named Funds

The Frank Irons Agricultural Engineering Scholarship Fund
(Scholarships - Agricultural Engineering) $20,000.00

The Robert Ferguson Shurtz Awards Fund
(Awards to second-year students in the College of Engineering) $20,000.00

The Nadine Foster and Merrel Quentin Elder Scholarship Fund
(Scholarships - College of Human Ecology or College of Agriculture) $15,000.00
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR APRIL 1990 (contd)

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The M. S. Sofia Scholarship and Lecture Memorial Fund in Arabic (Scholarships and lectures - Arabic) $ 15,000.00

The Ohio State University Foundation

Approval of Description and Establishment of Fund

The Harold E. Burtt Chair in Industrial Psychology Fund $ 250,000.00
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - April 1990

Federal Research Contracts/Grants

<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,028,184.00</td>
<td>National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Allan), 1 May 1990 through 30 April 1991. (Project 767477 - Continuation)</td>
</tr>
<tr>
<td>$389,280.00</td>
<td>Department of Education, Office of Vocational and Adult Education, Washington, D.C., Workplace Literacy for World Class Manufacturing, Department of Educational Studies: Humanities, Science, Technological, and Vocational (W. D. Dowling), Department of Educational Theory and Practice (J. DeStefano), and Center on Education and Training for Employment (S. L. Pritz and M. S. Imel), 1 April 1990 through 30 September 1991. (Project 768220 - New)</td>
</tr>
<tr>
<td>$202,272.00</td>
<td>Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Vascular Healing: Cell and Rheologic Factors, Department of Internal Medicine (D. L. Fry), 1 May 1990 through 30 April 1991. (Project 766884 - Continuation)</td>
</tr>
<tr>
<td>$202,221.00</td>
<td>Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Neoplastic Transformation of Human Epithelial Cells, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 1 April 1990 through 31 March 1991. (Project 761756 - Continuation)</td>
</tr>
<tr>
<td>$188,544.00</td>
<td>Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Kinetics and Mechanism of Lipid Phase Transitions, Department of Chemistry (M. Caffrey), 1 April 1990 through 31 March 1991. (Project 766638 - Continuation)</td>
</tr>
<tr>
<td>$178,354.00</td>
<td>Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Molecular Biology of Organellar Translocation, Department of Molecular Genetics (B. R. Oakley) and Department of Microbiology (D. R. Galloway), 1 April 1990 through 31 March 1991. (Project 763502 - Continuation)</td>
</tr>
<tr>
<td>$177,454.00</td>
<td>Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Chemistry of Novel Natural Inhibitors of Carcinogenesis, College of Pharmacy (J. M. Cassady), 1 April 1990 through 31 March 1991. (Project 766665 - Continuation)</td>
</tr>
<tr>
<td>$167,359.00</td>
<td>Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Polycondensed Alicyclics and Their Antiviral Role, Department of Chemistry (L. A. Paquette), 1 May 1990 through 30 April 1991. (Project 763920 - Continuation)</td>
</tr>
<tr>
<td>$164,685.00</td>
<td>Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Interval Training and Cancer Patients' Functional Capacity, Department of Family and Community Nursing (M. G. MacVicar), 1 April 1990 through 31 March 1991. (Project 766682 - Continuation)</td>
</tr>
</tbody>
</table>
Federal Research Contracts/Grants (contd)

$162,648.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cardiopulmonary Actions -- Trimetoquinol Analogs, College of Pharmacy (D. D. Miller and D. R. Feller), 1 April 1990 through 31 March 1991. (Project 761574 - Continuation)

$162,000.00 - Department of Health and Human Services, Health Resources and Services Administration, Rockville, Maryland, Residency Training in General Internal Medicine, Department of Internal Medicine (E. L. Mazzaferrri and J. M. Bowen), 1 July 1990 through 30 June 1991. (Project 768212 - New)

$156,624.00 - Department of the Air Force, Washington, D.C., "Big Ear" Range Studies, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 3 May 1990 through 2 December 1990. (Project 767467 - Continuation)

$156,024.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Role of Gangliosides in the Pathogenesis of Gliomas, Department of Pathology (A. J. Yates), 1 April 1990 through 31 March 1991. (Project 767412 - Continuation)

$153,087.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Campylobacter pylori-induced Gastric Disease in Gnotobiotic Piglets, Department of Veterinary Pathobiology (G. S. Krakowka), 1 May 1990 through 30 April 1991. (Project 768215 - New)

$143,766.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Lipids Controlling S. aureus Survival In Vivo, Department of Microbiology and Immunology (F. A. Kapral), 1 April 1990 through 31 March 1991. (Project 763912 - Continuation)

$143,271.00 - Environmental Protection Agency, Washington, D.C., DNA Damage in Human Fetal Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 2 April 1990 through 1 April 1991. (Project 768188 - Continuation)

$139,007.00 - Department of Health and Human Services, National Center for Research Resources, Bethesda, Maryland, Topical In Vivo Electron Spin Resonance, Department of Chemistry (L. J. Berliner), 1 April 1990 through 31 March 1991. (Project 766380 - Continuation)

$137,200.00 - National Science Foundation, Washington, D.C., Liquid and Solid Helium at Very Low Temperatures, Department of Physics (D. O. Edwards), 1 July 1990 through 30 June 1991. (Project 767398 - Continuation)

$132,511.00 - Department of Health and Human Services, National Institute on Drug Abuse, Bethesda, Maryland, Cocaine-Induced Ventricular Fibrillation, Department of Physiology (G. E. Billman), 1 April 1990 through 31 March 1991. (Project 768194 - New)

$131,854.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Mechanistic Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 April 1990 through 31 March 1991. (Project 766661 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$123,080.00 - National Science Foundation, Washington, D.C., Maintenance of the Bacillus Genetic Stock Center, Department of Biochemistry (D. H. Dean), 1 March 1990 through 28 February 1991. (Project 767330 - Continuation)

$109,662.00 - National Science Foundation, Washington, D.C., An Imaging Spectrometer for Long-Term Studies of Emission-Line Objects, Department of Astronomy (B. M. Peterson), 1 May 1990 through 30 April 1991. (Project 767434 - Continuation)

$109,585.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Sensory Gating and Animal Models in Schizophrenia, Department of Psychiatry (S. B. Schwarzkopf), 1 April 1990 through 31 March 1991. (Project 768187 - New)

$106,643.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Constraints on Cognitive Theories of Performance, Department of Psychology (C. Palmer), 1 April 1990 through 31 March 1991. (Project 768151 - New)

$102,900.00 - National Science Foundation, Washington, D.C., Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18K, Department of Zoology (P. A. Collinaux), 1 February 1990 through 31 January 1991. (Project 766323 - Continuation)

$102,550.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Regulation of Histidine Utilization in Streptomyces, Department of Microbiology (K. E. Kendrick), 1 April 1990 through 31 March 1991. (Project 767370 - Continuation)

$100,250.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Advances in Identification of Airborne Radar Targets, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton, F. D. Garber, and R. L. Moses), 1 November 1989 through 31 October 1990. (Project 767996 - Continuation)

$99,509.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Constitutive Parameter Measurements of Lossy Materials, ElectroScience Laboratory, Department of Electrical Engineering (A. K. Dominek and W. D. Burnside), 19 December 1989 through 18 December 1990. (Project 768152 - New)

$97,691.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, A Mechanistic Study of the Brittle to Ductile Transition in High Melting Point Intermetallic Compounds, Department of Materials Science and Engineering (H. L. Fraser), 1 January 1990 through 30 September 1990. (Project 768191 - New)

$94,400.00 - National Science Foundation, Washington, D.C., Basic Mechanisms of Sliding Friction and Wear, Department of Materials Science and Engineering (D. A. Rigney), 1 March 1990 through 31 August 1991. (Project 766644 - Continuation)

$87,232.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Energetics of Contraction in Single Muscle Cells, Department of Physiology (J. A. Rail), 1 April 1990 through 31 March 1991. (Project 760993 - Continuation)
Federal Research Contracts/Grants (contd)

$85,720.00 - Department of Health and Human Services, National Institute on Deafness and Other Communication Disorders, Bethesda, Maryland, Neural Basis of Taste Elicited Ingestion and Rejection, Oral Biology (J. B. Travers), 1 April 1990 through 31 March 1991. (Project 765695 - Continuation)

$82,586.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, A "Dynamic" Tension-Time Index Hypothesis, Department of Internal Medicine (T. L. Clanton), 1 May 1990 through 30 April 1991. (Project 766821 - Continuation)

$81,292.00 - Environmental Protection Agency, Washington, D.C., Promotion of Carcinogenesis: Role of Aberrant tRNA Modification, Department of Physiological Chemistry and Comprehensive Cancer Center (R. W. Trewyn), 8 March 1989 through 7 March 1991. (Project 764159 - Continuation)

$80,798.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Receptor Regulation of Adrenal Catecholamine Secretion, College of Pharmacy (D. B. McKay), 1 April 1990 through 31 March 1991. (Project 765968 - Continuation)

$78,470.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., On the Behavior of Non-Newtonian Fluids: Analysis Computation and Experiment, Department of Mathematics (M. G. Forest) and Department of Engineering Mechanics (S. E. Bechtel), 1 April 1990 through 30 September 1990. (Project 7668202 - New)


$60,891.00 - National Science Foundation, Washington, D.C., Diversity and Distribution of Fossil Floras from Southern Victoria Land, Antarctica, Byrd Polar Research Center (E. L. Taylor and T. N. Taylor) and Department of Botany (T. N. Taylor), 1 October 1990 through 30 September 1991. (Project 766664 - Continuation)
Federal Research Contracts/Grants (contd)

$55,120.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Foreign Language and Area Studies Fellowships in Slavic and East European Studies, Office of International Affairs (J. P. Scanlan), 15 August 1990 through 14 August 1991. (Project 767007 - Continuation)

$53,484.00 - National Science Foundation, Washington, D.C., The Ohio State University Young Science Scholars, Department of Chemistry (M. H. Klapper) and Biological Sciences Administration (A. M. Ackermann-Brown), 15 February 1990 through 31 July 1991. (Project 768186 - New)

$50,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 May 1990 through 30 September 1990. (Project 766854 - Continuation)

$50,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Experimental Study of Organized Structures in a Supersonic Shear Layer, Department of Mechanical Engineering (M. Samimy), 26 March 1990 through 30 September 1990. (Project 765794 - Continuation)

$42,927.00 - National Science Foundation, Washington, D.C., Gain of Regularity, Department of Mathematics (T. Kappeler), 15 April 1990 through 31 March 1992. (Project 768204 - New)

$39,417.00 - Department of Health and Human Services, National Institute on Deafness and Other Communication Disorders, Bethesda, Maryland, Biomechanics of the Middle Ear, Department of Zoology (T. E. Hetherington), 1 April 1990 through 31 March 1991. (Project 764599 - Continuation)

$36,260.00 - National Science Foundation, Washington, D.C., Non-Commutative Harmonic Analysis, Department of Mathematics (H. Moscovici and R. J. Stanton), 1 December 1990 through 30 November 1991. (Project 766790 - Continuation)

$35,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Relegation for Decentralized Control, Department of Electrical Engineering (U. Ozguner), 1 March 1990 through 28 February 1991. (Project 767334 - Continuation)

$30,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Laboratory Studies of Microwave Scattering from Saline Ice, Byrd Polar Research Center (K. C. Jezek), 15 January 1990 through 30 September 1990. (Project 768213 - New)

$30,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Experimental Evaluation of High Lift Airfoils, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 1 January 1990 through 30 November 1990. (Project 768207 - New)

$30,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, 12 m Surface Brightness of the Galactic Bulge: A Comparison with Other Galaxies, Department of Astronomy (J. A. Frogel), 1 June 1990 through 31 May 1991. (Project 768221 - New)
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$25,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, ElectroScience Laboratory, Department of Electrical Engineering (R. Rudduck), 31 July 1990 through 31 December 1990. (Project 763724 - Continuation)

$24,000.00 - Department of Education, Washington, D.C., Patricia Roberts Harris Public Service Education Fellowships, School of Public Policy and Management (H. L. Hunker), 1 September 1990 through 31 May 1991. (Project 768200 - New)

$22,306.00 - National Aeronautics and Space Administration, Johnson Space Center, Houston, Texas, Guidelines for Human Interface with Artificial Intelligence, Department of Industrial and Systems Engineering (D. D. Woods), 1 October 1989 through 30 September 1990. (Project 768208 - New)

$17,896.00 - National Science Foundation, Washington, D.C., Phonetic Investigation of Metrical Structure in Orally Produced Poetry, Department of Linguistics (I. Lehiste), 1 October 1990 through 30 September 1991. (Project 766729 - Continuation)

$15,660.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Processing and Testing of Chromized-Aluminized Diffusion Coatings on Superalloys, Department of Materials Science and Engineering (R. A. Rapp), 1 January 1990 through 30 September 1990. (Project 768209 - New)

$15,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Conception and Development of Improved Analytical Prediction Models for Fatigue Induced Tooth Breakage in Spur Gear Teeth, Department of Mechanical Engineering (D. R. Houser and J. A. Collins), 27 February 1990 through 26 February 1992. (Project 768209 - New)

$12,000.00 - Smithsonian Institute, Smithsonian Tropical Research Institute, APO Miami, Florida, Continued Research into the Environmental History of the Isthmus of Panama, Department of Zoology (P. A. Colinvaux), 1 February 1990 through 30 June 1990. (Project 768185 - New)

$10,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Terrestrial Gravity Data Analysis for Interim Gravity Model Improvement, Department of Geodetic Science and Surveying (R. H. Rapp), 1 September 1989 through 30 June 1990. (Project 768185 - New)

$9,950.00 - Environmental Protection Agency, Las Vegas, Nevada, Remote Sensing and Global Information System, Department of Civil Engineering (J. G. Lyon), 2 April 1990 through 30 September 1990. (Project 768206 - New)


$6,996.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARD (N. D. Schmidt and R. F. Edwards), 17 April 1990 through 30 September 1990. (Project 766472 - Continuation)

1188
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

$5,750.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Computational Study of the Jet-in-the-Ground-Effect Flow with Dynamically Adaptive Grid, Department of Mechanical Engineering (S. Nakamura), 20 March 1990 through 30 June 1990. (Project 766675 - Continuation)

$4,000.00 - National Science Foundation, Washington, D.C., Synthetic Catalysts Based on Reversible Covalent Bond Formation, Department of Chemistry (A. W. Czarnik), 1 January 1990 through 31 May 1990. (Project 767602 - Continuation)

$4,000.00 - National Science Foundation, Washington, D.C., Structure and Dynamic Behavior of Selected Organolithium Compounds, Department of Chemistry (G. A. Fraenkel), 1 January 1990 through 31 December 1990. (Project 767225 - Continuation)

$1,015.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Feline Retrovirus-Associated Endocrine Dysfunction, Department of Veterinary Pathobiology (J. L. Rojko, L. E. Mathes, and C. A. Brooks), 1 March 1990 through 28 February 1991. (Project 767361 - Continuation)

TOTAL - FEDERAL AWARDS $8,032,404.00

State of Ohio Research Contracts/Grants

$34,590.00 - State of Ohio, Department of Health, Columbus, Ohio, Adoption of AIDS Curricula in Ohio Schools: An Inter-disciplinary Qualitative Evaluation, School of Health, Physical Education, and Recreation (M. S. C. Chen) and Department of Anthropology (A. A. Zaharlick), 1 January 1990 through 30 June 1990. (Project 768193 - New)

$12,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Geodetic Advisor for the State of Ohio, Center for Mapping and Department of Geodetic Science and Surveying (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 766336 - Continuation)

$11,900.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Shredded Newsprint for Animal Bedding, Cooperative Extension State Operations (J. D. Rohrer), 1 November 1989 through 30 June 1990. (Project 768091 - New)

$9,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Processing Field Collections of Unionid Mollusks into Research-Ready Lots at the Museum of Zoology, Department of Zoology (D. H. Stansbery), 5 March 1990 through 31 December 1990. (Project 768124 - Continuation)

$7,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Processing, Cataloging, and Data Management of Ohio Fishes at the Museum of Zoology of The Ohio State University, Department of Zoology (T. M. Cavender), 5 March 1990 through 31 December 1990. (Project 768226 - Continuation)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

$3,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Inventory of the Nitidulidae in Natural Areas and Preserves of Ohio, Department of Entomology - OARDC (R. N. Williams), 6 March 1990 through 1 June 1991. (Project 768177 - New)

TOTAL - STATE OF OHIO AWARDS $ 78,990.00

Industrial Research Contracts/Grants


$110,000.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Multiple Oral Dose Study of CGS-15873A(06) in Healthy Normal Male Volunteers, Department of Pharmacology (N. Gerber), 15 March 1990 through 14 March 1991. (Project 768199 - New)

$47,861.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Tenidap Sodium to Alter the Pharmacodynamics and Plasma Protein Binding of Warfarin in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 1 June 1989 through 30 June 1990. (Project 767865 - New)


$24,375.00 - Adria Laboratories, Dublin, Ohio, A Continued Assessment of the Safety, Tolerance, and Pharmacokinetics of Single Intravenous Doses of ADR-851 Compared to Placebo in Normal Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 1 March 1990 through 31 August 1990. (Project 768198 - New)

$18,950.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 January 1990 through 30 September 1990. (Project 766470 - Continuation)

$10,000.00 - Geo-Centers, Inc., Newton Upper Falls, Massachusetts, New Methods of Synthesis of Polynitrocubanes and Polynitroazacubanes, Department of Chemistry (H. Shechter), 19 March 1990 through 19 September 1990. (Project 768195 - New)

$500.00 - Eli Lilly and Company, Indianapolis, Indiana, Post-Marketing Survey on the Use of Dobutamine, Department of Anesthesiology (T. M. Fuhrman, Jr.), 1 December 1989 through 30 June 1990. (Project 767955 - Continuation)

TOTAL - INDUSTRIAL AWARDS $ 369,112.00
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants

$315,437.00 - University of Chicago, Argonne, Illinois, Optical Readout System for the ZEUS Barrel Calorimeter, Department of Physics (T. Y. Ling and T. A. Romanowski), 1 January 1990 through 31 January 1991. (Project 767107 - Continuation)

$108,946.00 - University of Chicago, Argonne, Illinois, Inter-facial Phenomena and Dynamics of Bubbles in Gas-Liquid-Solid Fluidization, Department of Chemical Engineering (L. S. Fan and R. S. Brodkey), 1 May 1990 through 31 October 1990. (Project 767131 - Continuation)

$100,000.00 - Midwest Plant Biotechnology Consortium, West Lafayette, Indiana, Molecular Basis of Plant-Microbe Interactions, Biotechnology Program (P. E. Kolattukudy), 15 October 1989 through 14 October 1990. (Project 768117 - New)


$80,000.00 - Rockefeller Foundation, New York, New York, International Program in Pharmacoepidemiology and Therapeutics, Department of Internal Medicine (C. M. Kunin), 1 March 1990 through 28 February 1991. (Project 768211 - Continuation)

$52,500.00 - American Council of Learned Societies, New York, New York, A New Teaching Position in East European Studies with a Specialization in Economics, University Center for International Studies (J. P. Scanlan), 1 October 1990 through 30 June 1992. (Project 768214 - New)

$44,250.00 - W. K. Kellogg Foundation, Battle Creek, Michigan, To Continue the National Dissemination of the Concept of Interprofessional Education and Practice, Department of Educational Policy and Leadership (L. L. Cunningham), 1 March 1990 through 29 February 1992. (Project 768216 - New)

$39,972.00 - Easter Seal Research Foundation, Chicago, Illinois, Quantitative Analysis of Gait Following Stroke, Department of Physical Medicine (W. S. Pease) and Department of Surgery (S. R. Simon), 1 July 1990 through 30 June 1991. (Project 768222 - New)

$32,379.00 - Cystic Fibrosis Foundation, Bethesda, Maryland, Inspiratory Muscle Training: Children with Cystic Fibrosis, Department of Family and Community Nursing (E. H. Sawyer), 1 April 1990 through 31 March 1991. (Project 768192 - New)

$29,255.00 - Children’s Hospital Research Foundation, Columbus, Ohio, Epidemiology of Acute Nonlymphoblastic Leukemia in Children, Department of Preventive Medicine (J. R. Wilkins, Ill), 1 May 1989 through 30 April 1990. (Project 767521 - New)

$24,850.00 - United Nations, Geneva, Switzerland, Modulation of Luteal Progesterone Production in the Rhesus Monkey by Intracellular Calcium: Calcium as a Possible Mediator of Luteal Regression, Department of Dairy Science - OARDC and Department of Dairy Science (J. S. Ottobre), 1 November 1989 through 31 October 1990. (Project 767924 - New)
REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)
THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

$24,129.00 - Georgia Department of Education, Atlanta, Georgia, To Develop an Equity Handbook for Georgia Public Schools, Center on Education and Training for Employment (R. D. Ryan) and Department of Home Economics Education (W. L. Hull), 15 February 1990 through 30 September 1990. (Project 768190 - New)

$20,000.00 - University of California, Livermore, California, Laser-Generated Ultrasonics for Material Characterization, Department of Welding Engineering (L. Adler), 9 April 1990 through 30 September 1990. (Project 768197 - New)

$14,121.00 - University of Texas, Houston, Texas, Evaluation of Home Uterine Contraction Monitoring in Evaluation of High Risk Pregnancies, Department of Obstetrics and Gynecology (J. D. Iams), 1 December 1988 through 30 November 1990. (Project 766646 - Continuation)

$2,000.00 - The American-Scandinavian Foundation, New York, New York, Pike Piscivory and Ponds: Complex Interactions in Littoral Benthic Communities, Department of Zoology (R. A. Stein), 1 May 1990 through 30 November 1990. (Project 768230 - New)

TOTAL - OTHER NON-FEDERAL AWARDS $ 971,587.00

ENGINEERING EXPERIMENT STATION

Industry and Other Sponsored Research and Development

$100,500.00 - in additional budget from GE Reco Trailer MD, Cincinnati, Ohio, for "One-Twelfth Scale Ejector-Powered Simulator for the GE 90 Engine," under the direction of the department of Aeronautical and Astronautical Engineering for the period November 15, 1989 through May 14, 1990. (312524, Ext. 1)

$79,535.00 - from Electric Power Research Institute, Palo Alto, California, for "Fiber Optics in Radiation Environments," under the direction of the department of Engineering Experiment Station, Nuclear Reactor Lab, for the period April 15, 1990 through December 31, 1990. (529845)

$51,200.00 - from General Electric, Cincinnati, Ohio, for "Modeling Testing of Pakistan International Airlines 1/12 inch Scale Model," under the direction of the department of Aeronautical and Astronautical Engineering for the period April 1, 1990 through September 30, 1990. (312536)

$25,000.00 - additional funding from IBM Technical Interchange Program, Owego, New York, for "Integrating Component Accumulation and Material Flow to Promote the Efficiency of Assembly Operations," under the direction of the department of Industrial and Systems Engineering for the period May 1, 1988 through December 31, 1990. (529756, Ext. 2)

$15,560.00 - from McDonnell Douglas Corp., St. Louis, Missouri, for "Robust Controller Design for Advanced Fighter Aircraft," under the direction of the department of Aeronautical and Astronautical Engineering for the period April 1, 1990 through December 31, 1990. (529846)
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industry and Other Sponsored Research and Development (contd)

$14,492.00 - from 19 sponsors of 38 development projects in two research areas of the College.

$10,718.00 - additional funding from General Electric Company, Cincinnati, Ohio, for "Active Limitation of Base Metal Melting in Weld Repair Castings," under the direction of the department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529817, Ext. 1)

$9,000.00 - from Aerosafe, Inc., Dublin, Ohio, for "Design and Testing of a Prototype of the ICED Battery Safety Device," under the direction of the department of Mechanical Engineering for the period April 1, 1990 through September 30, 1990. (312535)

$8,742.00 - additional funding from Edison Welding Institute, Columbus, Ohio, for "Offline Robotic Programming," under the direction of the department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (529357, Ext. 2)

$7,770.00 - from Embassy of the Arab Republic of Egypt, Washington DC, for "Peace Fellow - Civil Engineering," under the direction of the department of Civil Engineering for the period April 15, 1990

INDUSTRY AND OTHER SPONSORED RESEARCH

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Frank Irons Agricultural Engineering Scholarship Fund

The Frank Irons Agricultural Engineering Scholarship Fund was established June 1, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Daisy Irons of Wooster, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to worthy students in Agricultural Engineering. An individual student may be awarded a scholarship for up to four years. Selection will be made by the Honors and Awards Committee of the Department of Agricultural Engineering, in consultation with the faculty and the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.
Establishment of Named Funds (contd)

The Robert Ferguson Shurtz Awards Fund

The Robert Ferguson Shurtz Awards Fund was established June 1, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Robert F. Shurtz (Bachelor of Engineering in Mining '37, Engineer of Mines '50, M.S. '50) of San Francisco, California.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The Robert Ferguson Shurtz Awards Fund fosters the application of mathematics in the practice of engineering by honoring second-year engineering students who have demonstrated outstanding performance and skill in their first-year mathematics course work and by providing means for enhancing and encouraging their continuing interest in the application of mathematics in engineering. To this end, the annual income shall be used to acquire five state-of-the-art computing devices each year which shall be awarded by the Dean of the College of Engineering to second-year students in the College of Engineering who have demonstrated such outstanding performance and skill during their first year at The Ohio State University.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

The Nadine Foster and Merrel Quentin Elder Scholarship Fund

The Nadine Foster and Merrel Quentin Elder Scholarship Fund was established June 1, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Mrs. Nadine Foster Elder (B.S.H.E. '45) of Warsaw, Ohio, in honor of her deceased husband, Merrel Quentin Elder (B.S.Agr. '32).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students in the College of Human Ecology who are majoring in Home Economics Education or to students enrolled in the College of Agriculture, including the School of Natural Resources. The recipients shall be selected on the basis of academic accomplishment and financial need and will be given to a student(s) in the Colleges of Human Ecology and Agriculture in alternating years. First preference shall be given to students from Coshocton County, Ohio. Second preference shall be given to students from Ohio. Scholarship recipients shall be selected by the appointees of the Deans of the Colleges of Agriculture and Human Ecology in consultation with the University Committee on Student Financial Aid.
Establishment of Named Funds (contd)

The Nadine Foster and Merrel Quentin Elder Scholarship Fund (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

The M. S. Sofia Scholarship and Lecture Memorial Fund in Arabic

The M.S. Sofia Scholarship and Lecture Memorial Fund in Arabic was established June 1, 1990, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Charles S. Kassab of Warren, Michigan.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Arabic program of the Department of Judaic and Near Eastern Languages and Literatures to fund: 1) scholarships for the benefit of potential and outstanding undergraduate and graduate students of Arabic to be chosen in consultation with the University Committee on Student Financial Aid; and 2) lectures by distinguished scholars for the development of greater understanding and awareness of Arabic culture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

The Harold E. Burtt Chair in Industrial Psychology Fund

The Harold E. Burtt Chair in Industrial Psychology Fund was established June 1, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation which has established an endowed fund from Ruth and Frank Stanton.
June 1, 1990 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION (contd)

Approval of Description and Establishment of Fund (contd)

The Harold E. Burtt Chair in Industrial Psychology Fund (contd)

Income provided by the Foundation shall be added to the fund's principal until the minimum amount for funding an endowed chair ($1,250,000) has been reached. At that time, the annual income shall be used to provide salary and program support for the work of a distinguished teacher and scholar in the Department of Industrial Psychology, College of Social and Behavioral Sciences. Appointment to the Harold E. Burtt Chair will be recommended by the Dean of the College of Social and Behavioral Sciences to the Provost and approved by The Ohio State University Board of Trustees.

--0--

Employment of Architects/Engineers and Request for Construction Bids

Background

Dreese Laboratory Addition

This project will construct a nine floor addition of approximately 90,000 gross square feet on the west side of Dreese Laboratory consisting to house the Department of Computer and Information Science (80% of space) and the Department of Electrical Engineering (20% of space).

Dreese Laboratory was originally planned to accommodate this addition including an elevator shaft and corridor connection locations on each floor. The addition will provide approximately 50,000 assignable square feet and house approximately 65 faculty members, 6 research scientists, 26 technical and professional staff, and 152 graduate students. The remainder of the space is to accommodate large scale instructional computer laboratories, smaller computer-based research laboratories, at least one "high-tech" computer classroom, a high voltage laboratory, one "clean room" laboratory, and related support spaces.

Funds for this project are available from House Bill 808. Construction costs for the project are estimated at $15,500,000.00, and the total estimated project cost is $20,449,000.00.

(See Appendix LXXV for map, page 1231.)

EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS

Resolution No. 90-134

DRESEE LABORATORY ADDITION

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architects/engineers and request construction bids for the Dreese Laboratory Addition project.
EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST FOR CONSTRUCTION BIDS (contd)

DREESE LABORATORY ADDITION (contd)

WHEREAS the Dreese Laboratory Addition project will construct a nine floor addition to house the Department of Computer and Information Science and the Department of Electrical Engineering; and

WHEREAS the total estimated cost of this project is $20,449,000.00, with the estimated construction cost being $15,500,000.00, and with funding provided from House Bill 808:

NOW THEREFORE

BE IT RESOLVED That the President and/or Acting Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services will be negotiated between the firm selected and the Department of Administrative Services, Division of Public Works; and

BE IT FURTHER RESOLVED That the President and/or Acting Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to recommend the award of contracts to the Department of Administrative Services, Division of Public Works, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Report of Award of Contracts and Establishment of Contingency Funds

Background

(See Appendix LXXVI for a complete tabulation of bids on all projects and locator maps, page 1233. Amounts shown with an * include accepted alternates.)

WINDOW REPLACEMENTS (PAGE HALL); POSTLE HALL RENOVATIONS; REGIONAL CAMPUS IMPROVEMENTS (NEWARK); AND 1960 KENNY ROAD RENOVATION

Window Replacements (Page Hall)

This project will replace the deteriorated window units in Page Hall to reduce energy losses and improve building comfort. The total project cost is $101,415.00; funding is provided from House Bill 810. The estimated completion date is November 1990. The contract awarded is as follows:

General Contract: M. Rieser & Assoc., Columbus, Ohio

Amount: $92,050.00 *

Estimate: $157,500.00 *
Report of Award of Contracts and
Establishment of Contingency Funds (contd)

Background (contd)

Window Replacements (Page Hall) (contd)

<table>
<thead>
<tr>
<th>Total All Contracts:</th>
<th>$ 92,050.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contingency Allowance:</td>
<td>$ 7,365.00 (8 percent of construction cost)</td>
</tr>
<tr>
<td>Total Project Cost:</td>
<td>$101,415.00</td>
</tr>
</tbody>
</table>

Postle Hall Renovations

This project will modify and upgrade the deteriorated central chilled water plants located in Postle Hall and provide needed back-up capacity for a major portion of the building. The total project cost is $450,000.00; funding is provided from Senate Bill 386. The estimated completion date is February 1991. The contracts awarded are as follows:

- HVAC Contract: J. A. Guy, Inc., Dublin, Ohio
  - Amount: $297,300.00
  - Estimate: $304,386.00
- Electric Contract: Romanoff Electric, Dublin, Ohio
  - Amount: $33,680.00
  - Estimate: $40,323.00

<table>
<thead>
<tr>
<th>Total All Contracts:</th>
<th>$330,980.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contingency Allowance:</td>
<td>$32,207.75 (9 percent of construction cost)</td>
</tr>
<tr>
<td>Total Project Cost:</td>
<td>$450,000.00</td>
</tr>
</tbody>
</table>

Regional Campus Improvements (Newark)

This project will replace the existing deteriorated asphalt surface and renovate the base and subgrade as needed. The total project cost is $440,000.00; funding is provided from Senate Bill 386. The estimated completion date is September 1990. The contract awarded is as follows:

- General Contract: Miller Pavement Maintenance, Hilliard, Ohio
  - Amount: $339,607.60 *
  - Estimate: $384,348.00 *
June 1, 1990 meeting, Board of Trustees

Report of Award of Contracts and Establishment of Contingency Funds (contd)

Background (contd)

Regional Campus Improvements (Newark) (contd)

Total All Contracts: $339,607.60 *
Contingency Allowance: $36,620.58 (10 percent of construction cost)
Total Project Cost: $440,000.00

1960 Kenny Road Renovation

This project will renovate the 40,960 gross square foot facility located at 1960 Kenny Road to house the University's Research Foundation. Work associated with this project includes demolition, drywall, door replacement, new floor coverings, painting, replacement of all lighting, and installation of an air conditioning unit for the computer room. The total project cost is $700,705.00; funding is provided from Property Management and the Research Foundation. The estimated completion date is December 1990. The contracts awarded are as follows:

General Contract: Ed Ross, Westerville, Ohio

Amount: $285,595.00 *
Estimate: $425,000.00 *

Fire Protection Contract: Dalmation Fire, Mason, Ohio

Amount: $29,000.00
Estimate: $20,000.00

HVAC Contract: R. M. Giehl, Columbus, Ohio

Amount: $53,400.00
Estimate: $64,000.00

Electric Contract: Walls-Carroll, Dublin, Ohio

Amount: $204,007.00
Estimate: $250,000.00

Total All Contracts: $572,002.00 *
Contingency Allowance: $57,203.00 (8 percent of construction cost)
Total Project Cost: $700,705.00

1199
June 1, 1990 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS

Resolution No. 90-135

WINDOW REPLACEMENTS (PAGE HALL);
POSTLE HALL RENOVATIONS;
REGIONAL CAMPUS IMPROVEMENTS (NEWARK); AND
1960 KENNY ROAD RENOVATION

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Window Replacements (Page Hall), Postle Hall Renovations, Regional Campus Improvements (Newark), and 1960 Kenny Road Renovation projects.

WHEREAS resolutions adopted by the Board of Trustees on July 11, 1986 and May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Postle Hall Renovations, Regional Campus Improvements (Newark), and Window Replacements (Page Hall); and

WHEREAS a resolution adopted by the Board of Trustees on and March 2, 1990, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to award contracts for the following project: 1960 Kenny Road Renovation:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the Window Replacements (Page Hall), Postle Hall Renovations, Regional Campus Improvements (Newark), and 1960 Kenny Road Renovation projects is hereby accepted.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

1990-91 BUDGET PRESENTATION

Mr. Ihrig:

Today I am presenting the final budget for the current biennium. This current funds budget is balanced with $1,167,630,000 in resources to cover budgeted uses of $1,165,760,000 in uses.
Mr. Ihrig: (contd)

The budget presented for your approval complies with the tuition and compensation guidelines presented by President Jennings to this Board in May. The budgeted total resources show an increase of $86.4 million over the projected resources for 1989-90, an 8 percent increase. However, the Unrestricted General Funds, which are the basic funds that are in support of the colleges and the direct support, show an increase of only 6.3 percent. Of this category, the Institutional Subsidy for Columbus increases only 5.4 percent, from $256.6 to $270.5 million, while regional campuses increase 6.9 percent. The 12.4 percent increases in the Earnings Operations are due not to rate increases, but the opening of The Arthur G. James Cancer Hospital and Research Institute adding into the earnings activity for the University.

The 3.8 percent increase at OARDC is in accordance with their agreed upon plan to bring annual uses within available resources this biennium. So, that will be during 1990-91 and that adjustment will be fully accounted for there.

While 30.6 percent of total resources for this budget come from the State of Ohio, this is down 0.6 percent from the current year's 31.2 percent share. Student tuitions remain at the 16 percent level, while other resources increased from 52.8 to 53.3 percent.

The enrollments used in this budget are the targets that were presented to the Board in January of this year. So they are following the same enrollment targets we had previously set. It is interesting to note that the composite increase for both Ohio undergraduate and graduate students is 5.7 percent - due primarily to the low increases in room and board rates in the Residence Halls, 4.6 percent and 3.4 percent respectively. So, our dormitories have really done a significant job in holding down the cost again this year. This has not been a one year phenomenon. Dormitories have done this consistently over the last several years. Non-Ohio undergraduate and graduate students' composite increases are 8.3 and 8.4 percent respectively. That is part of our adjustment in the non-resident tuition making that difference.

We have provided you with about twenty years of the history of undergraduate tuition changes - in actual and as well as constant dollars. And it is interesting to note that since 1970, undergraduate tuitions at Ohio State have annually averaged only 0.56 percent over the CPI. Now even though the CPI isn't the basis for our costs for operating the University it is a concern to the students and people paying tuitions. So undergraduates have been within a half of a percent. The graduate and professional student tuitions, averaged from 2.3 percent to 3.8 percent per year over the CPI. So, we have traditionally held tuition down and in all categories we have made a serious effort as this demonstrates historically at Ohio State to hold the tuition down for our students.

Overall, the University's earnings units again held down their costs and rate increases. The weighted average rate increases from earnings units is 5.3 percent which when combined with the tuition changes for this year gives a total University weighted average increase of 6.1 percent. So, our earnings units have again followed and have cost containment within their areas and are keeping their costs down and their rates charged to the various people purchasing the services, either students or the general public. That includes University Hospitals, you should note.
1990-91 BUDGET PRESENTATION (contd)

Mr. Ihrig: (contd)

As noted in the budget resolution, this budget continues the cost containment and reallocation recurring commitments initiated during the 1987-89 biennium from both general fund and earnings areas. While these recurring central commitments continue, they are not being increased; however, each area of the University is challenged and required to identify another 1 percent in new cost reductions, but these are to be reallocated internally to meet their top priority need during 1990-91. In other words, this additional 1 percent, be it out of earnings units or the general funds units in colleges and the offices, are to be reallocated back to meeting their highest priority needs rather than being reallocated centrally. And that is the same procedure that we used this year.

We consider this budget which we are recommending for your approval to be a solid budget for 1990-91. But, it is also a tight budget for Ohio State as a result of the lower rate of increase in State support being provided this second year of the biennium. This year we had received 6.7 percent from the State, and this next year with this budget we are dropping to 5.4 percent increase. This situation will continue to challenge the University to find increasingly creative ways to utilize available resources.

I will be happy to try to respond to any questions you might have.

Background

1990-91 CURRENT FUNDS BUDGET

I. INTRODUCTION

This year, the budget for the next fiscal year, 1990-91, can be presented to this Board at its June meeting, which is consistent with normal University practices. Since the Ohio General Assembly enacted a biennial budget effective 1 July 1989, we know the rate of State support available. This enables the 1990-91 budget to be brought forward at this June meeting of the Board of Trustees.

Instructional Subsidy support from the State in this second year of the biennium represents an increase of 5.4 percent, significantly below what continues to be needed to support our goals of improved access and continued excellence. In addition, the State of Ohio has limited through legislation, the amount of income we may achieve through tuition. The combination of modest increases in state support and caps on tuition has placed severe limits on the resources available to this University.

Even though state support is not adequate to meet the needs of a prominent, comprehensive research university, this University cannot afford to let resource constraints reverse the momentum that has been established. Ohio State must continue to strive to enhance excellence by making maximum use of available resources.

This situation requires the establishment of clear priorities and continuing control of costs. The highest spending priorities for this budget are to maintain faculty and staff salaries at competitive levels and to add enough dollars to student financial aid to cover the recommended tuition increases and continue our efforts to improve the process by which this aid is awarded.
Background (contd)

1990-91 CURRENT FUNDS BUDGET (contd)

Although resources are limited, University aspirations should not be. This budget is designed to apply those resources in such a way as to continue to support and encourage the commitment of the faculty, staff and students to the highest standards of quality instruction, research and service.

II. SOURCE OF FUNDS

Current Funds Budget Resources proposed for 1990-91 total $1,167.63 million as summarized by funding source in the Budgeted Resources table. This represents an increase in budgeted resources of 8.0 percent. Included in these resources is State support totaling $357.40 million, which represents 30.6 percent of the total. Other major sources include student tuitions, $182.33 million, 15.6 percent; Federal grants and contracts, $115.59 million, 9.9 percent; and Hospital Sales and Services including the initial year of the Cancer Hospital Research Institute (CHRI), $255.09 million, 21.8 percent.

The core instructional and general budgets of the University -- Unrestricted General Funds -- are budgeted to have resources of $509.25 million, which amounts to 43.6 percent of total resources. Earnings operations, which include activities such as University Hospitals, CHRI, Residence Halls and Athletics are budgeted to bring in $390.37 million, which accounts for 33.4 percent of total resources. The remaining 23.0 percent of resources is in the restricted fund group which includes sponsored research projects, most private gifts, and such State-funded line-item activities as the Ohio Cooperative Extension Service and the Ohio Agricultural Research and Development Center.

The recommended tuition rates for both residents and non-residents of the various colleges and schools are shown in the Student Fee Schedules. These tuitions are consistent with the recommendations brought before this Board at the May 1990 meeting. As a result of a continuing cap on resident undergraduate instructional fees of $120 annually, the total increase in resident undergraduate instructional and general fees is only 7.0 percent. Resident instructional and general fees for graduate and professional are increasing 8.0 percent. In an effort to increase the proportionate share paid by non-resident students, the non-resident surcharge will increase 12.5 percent for students at all levels. With these increases, we expect Ohio State to maintain its competitive position and continue to be below the average within the Big Ten for most tuitions.

A major funding source for the University continues to be revenues from the sales and services of the earnings units. Continuing efforts to monitor and limit increases in all fees and charges of the University, the average increase in all University charges will be approximately 6.1 percent. The weighted average of the earnings operations in total has been held to approximately 5.3 percent, with Athletics proposing average rate increases of only 2.2 percent.

As in this current fiscal year, all general fund and earnings activities will be required to identify new internal cost savings reallocations totaling 1.0 percent of their total budgets. This new reallocated amount is to be used to fund highest priority needs within the areas as determined by the Deans and Vice Presidents. This budget also includes continuation of the recurring central cost containment/reallocation commitments from general fund and earnings areas which were defined in the 1987-88 and 1988-89 budgets, respectively.
June 1, 1990 meeting, Board of Trustees

**Background (contd)**

**1990-91 CURRENT FUNDS BUDGET (contd)**

III. USES OF FUNDS

As detailed in the Budgeted Uses schedule, and in the supporting documents, this University's planned expenditures from current funds total $1,165.76 million. This level of recommended Current Funds expenditures will support the following budget planning guidelines:

* Increase faculty and administrative and professional salaries 2.0 percent and provide 4.0 percent in salary funds for merit increases. Increase classified staff 5.0 percent and provide 1.0 percent for merit increases. A 0.5 percent pool will be made available on a competitive basis for equity, excellence, and market adjustments for all faculty and staff levels. Increase graduate stipends 2.5 percent in addition to the 6.5 percent they received effective last January for 1990-91. Future adjustments to graduate stipends will occur as of 1 July, the same time as for faculty and staff.

* Fund compensation increases for negotiated wage settlements.

* Fund no increase in continuing budgets for supplies, equipment, and general expense. However, one-time funds from a one month health premium holiday designated for September 1990, will be made available to the colleges and offices to fund their highest priorities.

* Provide funding to maintain the purchasing power of University-funded student financial aid, plus cover new students who may qualify with the increases in tuition.

* Provide resources to meet mandatory cost increases, such as utilities, employee benefits and graduate fee authorizations.

* Provide a $2.0 million pool of continuing resources plus $4.0 million in cash to fund special needs of the University such as the University's new General Education Curriculum.

In addition, the State of Ohio will provide $4.9 million in Research Challenge funds in 1990-91. Also the 1990-92 State Capital Improvements bill is expected to provide approximately $9.5 million for acquisition of instructional and computer equipment.

This balanced budget for 1990-91 is being presented for the Board of Trustees approval.

**1990-91 CURRENT FUNDS BUDGET**

Resolution No. 90-136

Synopsis: The Fiscal Affairs Committee recommended the budget for fiscal year 1990-91.

WHEREAS the levels of State support have been established for the second year of the 1989-91 biennium; and

WHEREAS appropriate planning and consultation within the University has been accomplished; and
WHEREAS the President is now prepared to present the 1990-91 budget:

NOW THEREFORE

BE IT RESOLVED, That the University Current Funds Budget for fiscal year 1990-91, as described in the accompanying text and tables, be approved, with authorization for the President to make expenditures within the projected income levels; and

BE IT FURTHER RESOLVED, That student fees be increased for all students beginning Autumn Quarter 1990, as specified in the Schedule of Student Fees incorporated in this resolution; and

BE IT FURTHER RESOLVED, That the Secretary be instructed to incorporate all supporting documents into the minutes of the meeting, including faculty tenure approvals and salary rolls with promotions, and authorization to purchase retirement credit for Thomas L. Tobin, and to file these materials with the official records of this University.

Upon motion of Mr. Teaford, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LXXVII for the charts on The Ohio State University 1990-91 Current Funds Budget, page 1243.)

--0--

WEXNER CENTER FOUNDATION

Resolution No. 90-137

WHEREAS it has been determined that there is a need to form a non-profit foundation under the Ohio Non-Profit Corporation Law to advance the interests of the Wexner Center for the Visual Arts at The Ohio State University, its students, faculty, staff and alumni constituents and its supporting community at large; and

WHEREAS this Foundation is to be organized and shall be operated exclusively for educational, charitable or artistic purposes by conducting and supporting activities which benefit, or carry out the mission of the Wexner Center; and

WHEREAS in order to facilitate the general mission of the Foundation, the purposes to be served by the Foundation shall include but not be limited to the following:

(a) To seek and obtain funds in any form to be administered for the benefit of or to carry out the purposes of the Wexner Center;

(b) To make distributions in accordance with the terms, if any, of gifts, bequests or devises that are not inconsistent with the purposes of the Wexner Center, the Foundation or the University;

(c) To make distributions in accordance with determinations made by the Board of Director of the Foundation pursuant to their authority as set forth in the Articles of Incorporation;
WEXNER CENTER FOUNDATION (contd)

(d) To conduct or support programs or projects acceptable to the Wexner Center which augment the facilities of or otherwise assist the Wexner Center in the advancement of its artistic, educational, research and service goals;

NOW THEREFORE

BE IT RESOLVED, That pursuant to the general authority vested in the Board of Trustees by law, The Ohio State University hereby approves the establishment of the Wexner Center Foundation under the laws of Ohio and approves such a relationship between the University and the Wexner Center Foundation which can qualify such Foundation under 509 (a) (3) of the United States Internal Revenue Code by reason of the University being a benefited organization; and

BE IT FURTHER RESOLVED, That The Ohio State University gives its consent to the Wexner Center Foundation to use the name, The Wexner Center Foundation; and

BE IT FURTHER RESOLVED, That the President of the University is authorized to execute such documents that are necessary to carry out the establishment of The Wexner Center Foundation and to provide such assistance to the Foundation as he deems necessary or desirable to carry out effectively the responsibilities and purposes of the University.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

--0--

Thereupon the Board adjourned to meet Thursday, July 5 and Friday, July 6, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

Shirley D. Bowser
Chairperson
APPENDIX LXXIII

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY
May 18, 1990

Presented to the Investments Committee and
Adopted by the Board of Trustees June 1, 1990
(See page 1143)
THE OHIO STATE UNIVERSITY
ENDOWMENT FUND

ENDOWMENT SUMMARY

May 18, 1990

Office of the Treasurer
The Ohio State University Endowment Fund
Selected Yield and Interest Rates

YIELDS ON SELECTED SECURITIES
AVERAGES OF DAILY RATES

SELECTED INTEREST RATES
AVERAGES OF DAILY RATES

LATEST DATA PLOTTED ARE AVERAGES OF RATES AVAILABLE FOR THE WEEK ENDING MAY 18, 1990.

PREPARED BY FEDERAL RESERVE BANK OF ST. LOUIS
THE OHIO STATE UNIVERSITY
Portfolio Summary

Unallocated Cash
5/18/90: $437,413
6/30/90: $57,014,059

Equities:
- Chicago: 37,560,816
- R. Meeder (1): 12,971,550
- Neuberger & Berman: 13,996,281
- Nicholas Applegate: 14,823,661
- Siebel: 35,706,357
- University Managed: 32,160,208
- University Students (2): 5,416,334
- Wells Fargo EAFE (3): 9,047,396
- Wells Fargo S&P 500 (4): 30,553,436
Total Equities: 192,236,039

Fixed Income:
- Boatmen's Trust: 22,425,965
- Cambridge: 918,080
- Duff & Phelps: 9,970,833
- WR Lazard (5): 9,740,129
- STW Fixed Income: 22,804,654
- University GNMA: 9,926,775
- University Managed: 239,188
Total Fixed Income: 76,025,824

Real Estate
43,967,188

Total Portfolio
5/18/90: $312,666,464
6/30/90: $287,298,389

Asset Allocation
5/18/90 | % of Portfolio | 4/20/90 | % of Portfolio | 6/30/90 | % of Portfolio
--- | --- | --- | --- | --- | ---
Equities | $175,130,881 | 56.01 | $165,139,878 | 55.06 | $108,021,220 | 36.90
Fixed Income | 75,043,433 | 24.00 | 73,062,984 | 24.36 | 66,684,167 | 23.28
Real Estate | 43,875,000 | 14.03 | 43,875,000 | 14.63 | 39,395,000 | 13.71
Cash | 18,617,150 | 5.98 | 17,864,845 | 5.95 | 74,988,002 | 26.11
Total | $312,666,464 | 100.00 | $299,942,717 | 100.00 | $287,298,389 | 100.00

(1) R. Meeder began as an advisor on August 8, 1989 with $15,000,000.
(2) University Students began as advisor on February 20, 1990 with $5,000,000.
(3) Wells Fargo EAFE began as an advisor on October 2, 1989 with $10,000,000.
(4) Wells Fargo S&P 500 began as an advisor on October 6, 1989 with $30,000,000.
(5) WR Lazard began as an advisor on August 8, 1989 with $10,000,000.
THE OHIO STATE UNIVERSITY
Endowment Performance Summary

Estimated 12 Month Total Return

Equities

<table>
<thead>
<tr>
<th>Fund</th>
<th>Yield%</th>
<th>Change%</th>
<th>Total Return%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago Corp (1.3)</td>
<td>2.5</td>
<td>8.3</td>
<td>10.8</td>
</tr>
<tr>
<td>R. Meeder (0.7)</td>
<td>1.7</td>
<td>(13.5)</td>
<td>(11.8) [1]</td>
</tr>
<tr>
<td>Neuberger &amp; Berman (0)</td>
<td>2.8</td>
<td>2.4</td>
<td>5.2</td>
</tr>
<tr>
<td>Nicholas Applegate (1.1)</td>
<td>1.2</td>
<td>24.5</td>
<td>25.7</td>
</tr>
<tr>
<td>Siebel (38.8)</td>
<td>4.7</td>
<td>11.5</td>
<td>16.2</td>
</tr>
<tr>
<td>University Managed (0)</td>
<td>2.3</td>
<td>14.4</td>
<td>16.7</td>
</tr>
<tr>
<td>University Students (45.5)</td>
<td>0.9</td>
<td>8.3</td>
<td>9.2 [2]</td>
</tr>
<tr>
<td>Wells Fargo EAFE (0)</td>
<td>1.2</td>
<td>(9.5)</td>
<td>(8.3) [3]</td>
</tr>
<tr>
<td>Wells Fargo S&amp;P 500 (0)</td>
<td>2.2</td>
<td>1.8</td>
<td>4.0 [4]</td>
</tr>
<tr>
<td>S&amp;P 500 (0)</td>
<td>2.4</td>
<td>10.4</td>
<td>12.8</td>
</tr>
</tbody>
</table>

Fixed Income

<table>
<thead>
<tr>
<th>Fund</th>
<th>Yield%</th>
<th>Change%</th>
<th>Total Return%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boatmen's Trust (0.1)</td>
<td>7.5</td>
<td>1.1</td>
<td>8.6</td>
</tr>
<tr>
<td>Cambridge (4.4)</td>
<td>8.0</td>
<td>1.6</td>
<td>9.6</td>
</tr>
<tr>
<td>Duff &amp; Phelps (1.1)</td>
<td>8.3</td>
<td>0.1</td>
<td>8.4</td>
</tr>
<tr>
<td>WR Lazard (0.2)</td>
<td>6.7</td>
<td>(2.6)</td>
<td>4.1 [1]</td>
</tr>
<tr>
<td>STW Fixed Income (1.4)</td>
<td>8.7</td>
<td>(1.5)</td>
<td>7.2</td>
</tr>
<tr>
<td>University GNMA (4.8)</td>
<td>9.6</td>
<td>0.1</td>
<td>9.7</td>
</tr>
<tr>
<td>University Managed (0)</td>
<td>14.8</td>
<td>(24.4)</td>
<td>(9.6)</td>
</tr>
<tr>
<td>Shearson Govt/Corp (0)</td>
<td>9.1</td>
<td>(0.5)</td>
<td>8.6</td>
</tr>
</tbody>
</table>

( ) Percent Cash 5/18/90
[1] Reflects return from initial allocation August 8, 1989 only.
[3] Reflects return from initial allocation October 2, 1989 only.
[4] Reflects return from initial allocation October 6, 1989 only.

Change in Total Valuation

<table>
<thead>
<tr>
<th>Year to Date</th>
<th>Latest Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1, 1989 to</td>
<td>April 21, 1990 to</td>
</tr>
<tr>
<td>May 18, 1990</td>
<td>May 16, 1990</td>
</tr>
<tr>
<td>Beginning Market Value</td>
<td>$287,298,389</td>
</tr>
<tr>
<td>Principal Additions</td>
<td>19,549,645</td>
</tr>
<tr>
<td>Principal Withdrawals</td>
<td>(294,472)</td>
</tr>
<tr>
<td>Change in Market Value</td>
<td>6,112,902</td>
</tr>
<tr>
<td>Ending Market Value</td>
<td>$312,666,464</td>
</tr>
</tbody>
</table>

NOTE: Endowment Income from July 1, 1989 through May 31, 1990 totaled approximately $14,389,000.
THE OHIO STATE UNIVERSITY
Maturities and
Real Estate Activity

Maturities That Occurred During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>No maturities during the period.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Real Estate

Acquisitions & Sales

Description

No activity during the period.
<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Investment</th>
<th>Dividend</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,600</td>
<td>Air Products &amp; Chemicals, Inc.</td>
<td>Chicago</td>
<td>54.9850</td>
<td>$198,180.00</td>
<td>$4,752.00</td>
</tr>
<tr>
<td>2,400</td>
<td>American Brands, Inc.</td>
<td>Chicago</td>
<td>64.5490</td>
<td>155,073.60</td>
<td>6,192.00</td>
</tr>
<tr>
<td>3,800</td>
<td>Apple Computer, Inc.</td>
<td>Chicago</td>
<td>39.6875</td>
<td>150,812.50</td>
<td>1,672.00</td>
</tr>
<tr>
<td>3,100</td>
<td>Becton Dickinson &amp; Co.</td>
<td>Chicago</td>
<td>58.8690</td>
<td>185,795.40</td>
<td>3,224.00</td>
</tr>
<tr>
<td>1,400</td>
<td>Disney (Walt) Co.</td>
<td>Chicago</td>
<td>113.5090</td>
<td>159,003.60</td>
<td>812.00</td>
</tr>
<tr>
<td>2,000</td>
<td>General Mills, Inc.</td>
<td>Chicago</td>
<td>76.8550</td>
<td>153,840.00</td>
<td>4,400.00</td>
</tr>
<tr>
<td>3,100</td>
<td>Harley-Davidson, Inc.</td>
<td>Chicago</td>
<td>48.6380</td>
<td>150,963.80</td>
<td>0.00</td>
</tr>
<tr>
<td>800</td>
<td>Long's Drug Stores Corp.</td>
<td>Chicago</td>
<td>38.8750</td>
<td>29,552.00</td>
<td>768.00</td>
</tr>
<tr>
<td>7,000</td>
<td>National Pizza Co.</td>
<td>Chicago</td>
<td>22.4020</td>
<td>156,814.00</td>
<td>0.00</td>
</tr>
<tr>
<td>2,100</td>
<td>Nike, Inc.</td>
<td>Chicago</td>
<td>71.6115</td>
<td>150,384.25</td>
<td>1,680.00</td>
</tr>
<tr>
<td>6,100</td>
<td>Stride Rite Corp.</td>
<td>Chicago</td>
<td>24.8750</td>
<td>152,103.50</td>
<td>2,440.00</td>
</tr>
<tr>
<td>4,300</td>
<td>U.S. West, Inc.</td>
<td>Chicago</td>
<td>36.7501</td>
<td>158,025.50</td>
<td>8,600.00</td>
</tr>
<tr>
<td>14,000</td>
<td>Blockbuster Entertainment Corp.</td>
<td>Nicholas-Applegate</td>
<td>19.0883</td>
<td>268,075.60</td>
<td>0.00</td>
</tr>
<tr>
<td>7,500</td>
<td>Federal National Mortgage Association</td>
<td>Nicholas-Applegate</td>
<td>39.5698</td>
<td>297,223.30</td>
<td>5,400.00</td>
</tr>
<tr>
<td>4,000</td>
<td>Motorola, Inc.</td>
<td>Nicholas-Applegate</td>
<td>67.1900</td>
<td>269,000.00</td>
<td>3,040.00</td>
</tr>
<tr>
<td>10,000</td>
<td>Newell Co.</td>
<td>Nicholas-Applegate</td>
<td>26.4850</td>
<td>265,450.00</td>
<td>4,500.00</td>
</tr>
<tr>
<td>11,000</td>
<td>Southwest Airlines Co.</td>
<td>Nicholas-Applegate</td>
<td>26.0043</td>
<td>268,707.50</td>
<td>1,540.00</td>
</tr>
<tr>
<td>4,600</td>
<td>Enron Oil &amp; Gas Corp.</td>
<td>Siebel</td>
<td>22.0440</td>
<td>101,724.40</td>
<td>920.00</td>
</tr>
<tr>
<td>15,000</td>
<td>Granite Construction, inc.</td>
<td>Siebel</td>
<td>17.4417</td>
<td>261,625.00</td>
<td>0.00</td>
</tr>
<tr>
<td>10,900</td>
<td>Promus Companies, Inc.</td>
<td>Siebel</td>
<td>26.0000</td>
<td>264,160.00</td>
<td>0.00</td>
</tr>
<tr>
<td>15,000</td>
<td>Rochester Telephone Co.</td>
<td>Siebel</td>
<td>33.6250</td>
<td>505,425.00</td>
<td>21,600.00</td>
</tr>
<tr>
<td>10,000</td>
<td>United States Shoe Corp.</td>
<td>Siebel</td>
<td>22.3380</td>
<td>224,080.00</td>
<td>4,600.00</td>
</tr>
<tr>
<td>1,000</td>
<td>American International Group, Inc.</td>
<td>University Students</td>
<td>87.5000</td>
<td>87,560.00</td>
<td>480.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Coca-Cola Corp.</td>
<td>University Students</td>
<td>42.1250</td>
<td>211,125.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td>1,000</td>
<td>Limited, Inc.</td>
<td>University Students</td>
<td>40.1250</td>
<td>40,225.00</td>
<td>480.00</td>
</tr>
</tbody>
</table>

$4,902,931.95 $81,100.00
<table>
<thead>
<tr>
<th>Number of Shares</th>
<th>Company</th>
<th>Advisor</th>
<th>Price/Share</th>
<th>Total Sale</th>
<th>Gain (Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,500</td>
<td>Boise Cascade Corp.</td>
<td>Chicago</td>
<td>34.8410</td>
<td>$226,036.45</td>
<td>($40,521.65)</td>
</tr>
<tr>
<td>2,700</td>
<td>CNA Financial Corp.</td>
<td>Chicago</td>
<td>71.2500</td>
<td>192,193.08</td>
<td>38,456.08</td>
</tr>
<tr>
<td>7,600</td>
<td>Comdisco, Inc.</td>
<td>Chicago</td>
<td>18.0000</td>
<td>136,301.44</td>
<td>(16,192.56)</td>
</tr>
<tr>
<td>4,000</td>
<td>Dun &amp; Bradstreet Corp.</td>
<td>Chicago</td>
<td>45.0000</td>
<td>179,734.00</td>
<td>48,559.88</td>
</tr>
<tr>
<td>9,300</td>
<td>Ennis Business Forms, Inc.</td>
<td>Chicago</td>
<td>22.8750</td>
<td>212,125.90</td>
<td>55,495.30</td>
</tr>
<tr>
<td>5,350</td>
<td>Kelly Services, Inc. Cl. A</td>
<td>Chicago</td>
<td>35.8750</td>
<td>191,931.25</td>
<td>(4,072.75)</td>
</tr>
<tr>
<td>5,200</td>
<td>Kemper Corp.</td>
<td>Chicago</td>
<td>34.5000</td>
<td>179,056.02</td>
<td>(53,581.98)</td>
</tr>
<tr>
<td>1,419</td>
<td>LIN Broadcasting Corp.</td>
<td>Chicago</td>
<td>67.5000</td>
<td>95,782.50</td>
<td>15,786.37</td>
</tr>
<tr>
<td>5,600</td>
<td>Marriott Corp.</td>
<td>Chicago</td>
<td>24.1250</td>
<td>134,731.49</td>
<td>(27,633.23)</td>
</tr>
<tr>
<td>3,500</td>
<td>NCR Corp.</td>
<td>Chicago</td>
<td>67.8750</td>
<td>237,327.08</td>
<td>27,785.58</td>
</tr>
<tr>
<td>8,500</td>
<td>ALZA Corp. Cl. A</td>
<td>Nicholas-Applegate</td>
<td>35.4721</td>
<td>300,992.43</td>
<td>82,771.93</td>
</tr>
<tr>
<td>400</td>
<td>Autodesk, Inc.</td>
<td>Nicholas-Applegate</td>
<td>42.8540</td>
<td>17,061.60</td>
<td>4,095.53</td>
</tr>
<tr>
<td>5,200</td>
<td>Avnet, Inc.</td>
<td>Nicholas-Applegate</td>
<td>28.4815</td>
<td>147,786.85</td>
<td>4,994.65</td>
</tr>
<tr>
<td>5,100</td>
<td>Dayton-Hudson Corp.</td>
<td>Nicholas-Applegate</td>
<td>68.5261</td>
<td>349,165.63</td>
<td>29,644.13</td>
</tr>
<tr>
<td>700</td>
<td>Gap, Inc.</td>
<td>Nicholas-Applegate</td>
<td>66.1950</td>
<td>46,292.95</td>
<td>1,625.95</td>
</tr>
<tr>
<td>1,700</td>
<td>Microsoft Corp.</td>
<td>Nicholas-Applegate</td>
<td>65.7500</td>
<td>111,775.00</td>
<td>58,100.85</td>
</tr>
<tr>
<td>2,300</td>
<td>Neiman Marcus Group, Inc.</td>
<td>Nicholas-Applegate</td>
<td>15.7210</td>
<td>36,019.06</td>
<td>(2,646.72)</td>
</tr>
<tr>
<td>6,400</td>
<td>Novell, Inc.</td>
<td>Nicholas-Applegate</td>
<td>35.6828</td>
<td>228,240.44</td>
<td>17,136.83</td>
</tr>
<tr>
<td>1,500</td>
<td>Tambrands, Inc.</td>
<td>Nicholas-Applegate</td>
<td>81.3750</td>
<td>121,968.43</td>
<td>14,979.89</td>
</tr>
<tr>
<td>4,900</td>
<td>American Stores Co.</td>
<td>Siebel</td>
<td>68.6840</td>
<td>336,197.38</td>
<td>67,154.49</td>
</tr>
<tr>
<td>37,600</td>
<td>Cypress Semiconductor Corp.</td>
<td>Siebel</td>
<td>12.3873</td>
<td>470,835.42</td>
<td>21,835.42</td>
</tr>
<tr>
<td>15,100</td>
<td>Morton International, Inc.</td>
<td>Siebel</td>
<td>40.2510</td>
<td>606,712.84</td>
<td>93,934.16</td>
</tr>
<tr>
<td>3,000</td>
<td>American International Group, Inc.</td>
<td>University Students</td>
<td>93.6250</td>
<td>280,565.63</td>
<td>(239.37)</td>
</tr>
<tr>
<td>5,000</td>
<td>Banc One Corp.</td>
<td>University Students</td>
<td>27.5000</td>
<td>137,195.41</td>
<td>(8,979.59)</td>
</tr>
<tr>
<td>5,000</td>
<td>Edison Brothers Stores</td>
<td>University Students</td>
<td>35.4500</td>
<td>176,744.08</td>
<td>13,829.08</td>
</tr>
<tr>
<td>5,000</td>
<td>Fifth Third Bancorp</td>
<td>University Students</td>
<td>32.2500</td>
<td>160,750.00</td>
<td>450.00</td>
</tr>
<tr>
<td>6,000</td>
<td>Rubbermaid, Inc.</td>
<td>University Students</td>
<td>38.7500</td>
<td>231,882.24</td>
<td>33,632.24</td>
</tr>
<tr>
<td>5,000</td>
<td>Wal-Mart Stores, Inc.</td>
<td>University Students</td>
<td>54.0000</td>
<td>269,491.00</td>
<td>37,316.00</td>
</tr>
<tr>
<td>5,000</td>
<td>Walgreen Co.</td>
<td>University Students</td>
<td>43.6250</td>
<td>217,617.72</td>
<td>7,130.22</td>
</tr>
</tbody>
</table>

**Total:** $8,103,553.83  $510,532.36
### THE OHIO STATE UNIVERSITY
### Fixed Income Acquisitions

#### Purchases and Gifts During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Current Yield</th>
<th>Yield to Maturity</th>
<th>Price</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,275,000</td>
<td>U.S. Treasury Bond 7.250% 05-15-16</td>
<td>Boatmen's</td>
<td>8.7278%</td>
<td>8.9351%</td>
<td>83.0678</td>
<td>$1,889,792.19</td>
</tr>
<tr>
<td>900,000</td>
<td>U.S. Treasury Bond 8.500% 02-15-20</td>
<td>Cambridge</td>
<td>8.7884</td>
<td>8.8110</td>
<td>96.7187</td>
<td>870,468.75</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Mountain States Telephone &amp; Telegraph Co. 7.375% 05-01-30</td>
<td>STW</td>
<td>9.8801</td>
<td>9.7493</td>
<td>76.1870</td>
<td>761,870.00</td>
</tr>
</tbody>
</table>

### Total Investment

$3,522,130.94
THE OHIO STATE UNIVERSITY
Fixed Income Sales

Sales Made During Period

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Issue, Coupon, Maturity</th>
<th>Advisor</th>
<th>Price</th>
<th>Total Sale</th>
<th>Gain (Loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000</td>
<td>Eaton Corporation 8.875% 06-15-19</td>
<td>Boatmen's</td>
<td>90.7800</td>
<td>$907,800.00</td>
<td>($87,900.00)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>Associates Corp. of North America 8.375% 01-15-98</td>
<td>Boatmen's</td>
<td>98.0860</td>
<td>980,860.00</td>
<td>(13,640.00)</td>
</tr>
<tr>
<td>1,000,000</td>
<td>U.S. Treasury Bond 8.125% 08-15-19</td>
<td>STW</td>
<td>90.3281</td>
<td>903,281.25</td>
<td>(27,968.75)</td>
</tr>
</tbody>
</table>

**Total**          |                                 |             |       | **$2,791,941.25**  | **($129,508.75)** |
<table>
<thead>
<tr>
<th>Buildings and 3.9 acres at Boardwalk Street and Mediterranean Avenue</th>
<th>9.36%</th>
<th>1990</th>
<th>$4,275,000</th>
<th>$4,275,000</th>
<th>10/89</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.984 acres of land in Delaware County</td>
<td>0.55%</td>
<td>1971</td>
<td>100,793</td>
<td>641,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Hangar at Don Scott Field (Loan)</td>
<td>0.00%</td>
<td>1973</td>
<td>24,666 (1)</td>
<td>24,666</td>
<td>N/A</td>
</tr>
<tr>
<td>Hangar addition at Don Scott Field (Loan)</td>
<td>10.00%</td>
<td>1978</td>
<td>67,522 (1)</td>
<td>67,522</td>
<td>N/A</td>
</tr>
<tr>
<td>17.92 acres of land on Eitterman Road</td>
<td>0.00%</td>
<td>1978</td>
<td>25,152</td>
<td>725,000</td>
<td>05/88</td>
</tr>
<tr>
<td>51 acres of land, 2809 West Granville Road</td>
<td>0.00%</td>
<td>1962</td>
<td>160,265</td>
<td>2,896,000</td>
<td>06/89</td>
</tr>
<tr>
<td>48.52 acres of land, 3025 West Granville Road</td>
<td>0.00%</td>
<td>1972</td>
<td>544,398</td>
<td>4,367,000</td>
<td>06/89</td>
</tr>
<tr>
<td>76.143 acres of land, 3253 West Granville Road</td>
<td>0.03%</td>
<td>1968</td>
<td>310,538</td>
<td>6,853,000</td>
<td>06/89</td>
</tr>
<tr>
<td>30.539 acres of land, 3371 West Granville Road</td>
<td>0.00%</td>
<td>1971</td>
<td>285,079</td>
<td>2,749,000</td>
<td>06/89</td>
</tr>
<tr>
<td>32 acres of land, 3371 West Granville Road</td>
<td>0.19%</td>
<td>1986</td>
<td>2,078,666</td>
<td>2,880,000</td>
<td>06/89</td>
</tr>
<tr>
<td>12 acres of land, 3483 West Granville Road</td>
<td>0.00%</td>
<td>1985</td>
<td>24,000</td>
<td>1,080,000</td>
<td>06/89</td>
</tr>
<tr>
<td>8.557 acres of land, 3505 West Granville Road</td>
<td>0.00%</td>
<td>1968</td>
<td>17,114</td>
<td>770,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road</td>
<td>2.94%</td>
<td>1986</td>
<td>95,000</td>
<td>95,000</td>
<td>01/86</td>
</tr>
<tr>
<td>94.5 acres of land on Harrisburg Pike</td>
<td>0.00%</td>
<td>1986</td>
<td>190,000</td>
<td>283,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 2.633 acres at 1900 Kenny Road</td>
<td>21.84%</td>
<td>1961</td>
<td>659,930</td>
<td>1,250,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.41 acres at 1960 Kenny Road</td>
<td>17.36%</td>
<td>1971</td>
<td>1,320,693</td>
<td>2,500,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 6.328 acres at 1991 Kenny Road</td>
<td>8.81%</td>
<td>1968</td>
<td>170,000</td>
<td>696,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 3.295 acres at 930 Kinnear Road</td>
<td>7.97%</td>
<td>1962</td>
<td>435,204</td>
<td>1,550,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Building and 5.56 acres at 1100 Kinnear Road</td>
<td>3.74%</td>
<td>1984</td>
<td>825,000</td>
<td>2,650,000</td>
<td>06/89</td>
</tr>
<tr>
<td>20.968 acres of land on Shier-Rings Road</td>
<td>0.00%</td>
<td>1978</td>
<td>241,848</td>
<td>1,155,000</td>
<td>06/89</td>
</tr>
<tr>
<td>Veterans Administration Clinic</td>
<td>8.08%</td>
<td>1979</td>
<td>3,767,261</td>
<td>6,460,000</td>
<td>02/85</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$15,598,129</strong></td>
<td><strong>$43,967,188</strong></td>
<td></td>
</tr>
</tbody>
</table>
Subject: Proxy Solicitations
Date: May 31, 1990
From: James L. Nichols, Treasurer
To: Board of Trustees, The Ohio State University

During the month of May 1990, the University voted thirty-eight proxies.

Management proposals were as follows:

1) Election of the Board of Directors;
2) Amendment to increase the number of shares of authorized common stock;
3) Ratification of the independent auditors;
4) Approval of a series of six amendments to the 1987 Stock Option Plan;
5) Approval of a series of three amendments to the Employee Qualified Stock Purchase Plan;
6) Adoption of a stock option plan for certain key employees;
7) Approval of the Stock Savings Plan;
8) Amendment to the Stock Option Plan extending the period during which options may be exercised;
9) Ratification of an amended and restated Stock Ownership Option Plan;
10) Approve modifications to the Stock Distribution Plan for Pilots and Flight Engineers;
11) Approval of an Employee Stock Incentive Plan;
12) Approval of an amendment to the Equity Participation Plan;
13) Amendment to increase the number of shares of common stock for the Stock Option Plan;
14) Approval to increase the number of options in the Stock Option Plan;
15) Amendment to the Employee Stock Option Plan to increase the term and allow for continued vesting following retirement;
16) Amendment allowing for shares of common stock to be reserved for issuance to the Employee Stock Option Plan;

The shareholder proposals were as follows:

1) Invoke annual election of all directors;
2) Provide for cumulative voting;
3) Implement secret ballot voting by shareholders and tabulation by a third party;
4) Adoption of a shareholder rights plan;
5) Require the Company to furnish a list of ranking employees who had previous government service;
6) Provide for dividend reinvestment plan for shareholders.

The University voted for all Management proposals and against all shareholder proposals. Additionally, Management opposed all shareholder proposals.

The thirty-eight corporations were:

1) Albertson's, Incorporated
2) American Stores Company
3) The Andersons Management Corporation
4) Autodesk, Incorporated
5) Bally Manufacturing Corporation
6) Berlitz International Incorporated
7) Beverly Enterprises, Incorporated
8) Brown Group, Incorporated
9) Circus Circus Enterprises, Incorporated
10) Dayton Hudson Corporation
11) Dillard Department Stores, Incorporated
12) Edison Brothers Stores, Incorporated
13) Ethyl Corporation
14) First Alabama Bancshares, Incorporated
15) The Gap, Incorporated
16) Genesco Incorporated
17) Geraghty and Miller, Incorporated
18) The Home Depot, Incorporated
19) J.C. Penney Company, Incorporated
20) The Limited, Incorporated
21) Lin Broadcasting Corporation
22) Liz Claiborne, Incorporated
23) Longs Drug Stores Corporation
24) Lowe's Companies, Incorporated
25) Marriott Corporation
26) The May Department Stores Company
27) McDonald's Corporation
28) Mylan Laboratories Incorporated
29) Pan Am Corporation
30) Pic 'N' Save Corporation
31) Savannah Foods & Industries, Incorporated
32) Storage Technology Corporation
33) Super Valu Stores, Incorporated
34) Tonka Corporation
35) Toys "R" Us, Incorporated
36) U.S. Healthcare, Incorporated
37) Wal-Mart Stores, Incorporated
38) Woolworth Corporation
APPENDIX LXXIV

BACHELOR OF SCIENCE IN AGRICULTURE AND
BACHELOR OF SCIENCE IN NATURAL RESOURCES

Presented to the Agricultural Affairs Committee
June 1, 1990
(See page 1180)
Agricultural Affairs Committee
Board of Trustees
June 1, 1990

Bachelor of Science in Agriculture
and Bachelor of Science in Natural Resources

ATTRIBUTES OF A PERSON HAVING EARNED A B.Sc. IN AGRICULTURE OR IN NATURAL RESOURCES

1. An understanding of the biological science, physical science, social science, and technology bases related to food, agriculture, and the environment.

2. An understanding of the interactions of culture, natural and human resources, technology and public policy in the historical development and evolution of agricultural systems worldwide.

3. An ability to make ethical judgments about critical issues and to prepare for and accept change.

4. An ability to identify and solve problems, communicate solutions, and provide leadership in implementation.

OBJECTIVES OF THE B.Sc. IN AGRICULTURE AND B.Sc. IN NATURAL RESOURCES CURRICULA

The objectives of the curricula are to:

1. Demonstrate breadth and depth in the principles appropriate to and expected for a career in a specialized area.

2. Ensure breadth, with coherency, that complements the objectives of the student.

3. Provide an opportunity to explore areas of interest within or apart from agriculture and natural resources.

4. Enhance academic success.

The faculty will develop a supplemental set of objectives for each major. Objectives for the major should include understandings of the principles appropriate to and expected for career effectiveness. The concepts of lifelong learning is integral to career effectiveness.
# REQUIREMENTS FOR THE B.Sc. IN AGRICULTURE

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations</strong></td>
<td></td>
</tr>
<tr>
<td>Reading, Writing, Oral Expression, and Critical Analysis</td>
<td>10</td>
</tr>
<tr>
<td>Two writing courses</td>
<td></td>
</tr>
<tr>
<td>A third writing course counted in the major</td>
<td>0</td>
</tr>
<tr>
<td>Oral expression</td>
<td></td>
</tr>
<tr>
<td>Quantitative and Logical Skills</td>
<td></td>
</tr>
<tr>
<td>College algebra or elements of algebra</td>
<td>4</td>
</tr>
<tr>
<td>Data analysis</td>
<td>5</td>
</tr>
<tr>
<td>Social Diversity</td>
<td>0</td>
</tr>
<tr>
<td><strong>Natural Science</strong></td>
<td></td>
</tr>
<tr>
<td>First course in a two course chemistry sequence</td>
<td>5</td>
</tr>
<tr>
<td>First course in a two course biology sequence</td>
<td>5</td>
</tr>
<tr>
<td>First course in a two course physics sequence</td>
<td>5</td>
</tr>
<tr>
<td>Second course in a chemistry, biology or physics sequence</td>
<td>5</td>
</tr>
<tr>
<td>Calculus or one additional course in a natural science</td>
<td>4-5</td>
</tr>
<tr>
<td><strong>Social Science</strong></td>
<td></td>
</tr>
<tr>
<td>Three courses: Structured selection</td>
<td>15</td>
</tr>
<tr>
<td><strong>Arts and Humanities</strong></td>
<td></td>
</tr>
<tr>
<td>Two courses: Two-quarter historical survey</td>
<td>10</td>
</tr>
<tr>
<td>Three courses: Structured selection</td>
<td>15</td>
</tr>
<tr>
<td><strong>International Experience</strong></td>
<td></td>
</tr>
<tr>
<td>One or two courses</td>
<td>5-10</td>
</tr>
<tr>
<td><strong>Capstone Experience</strong></td>
<td></td>
</tr>
<tr>
<td>Issues of the Contemporary World</td>
<td>5</td>
</tr>
<tr>
<td><strong>Major</strong></td>
<td></td>
</tr>
<tr>
<td>Professional Support (minimum 10 hours)</td>
<td>50-60</td>
</tr>
<tr>
<td>Study in Depth (minimum 25 hours)</td>
<td></td>
</tr>
<tr>
<td><strong>Minor</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>10-31</td>
</tr>
<tr>
<td><strong>Agriculture Survey</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Minimum Credits for the Degree:</strong></td>
<td>200</td>
</tr>
</tbody>
</table>
### I. Foundations

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. UVC 100.28</td>
<td>1</td>
</tr>
</tbody>
</table>

#### B. Writing and Related Skills

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. English Composition (English 110)</td>
<td>5</td>
</tr>
<tr>
<td>2. Environment: the American Experience Natural Resources 267 or other University approved second writing course</td>
<td>5</td>
</tr>
<tr>
<td>3. Communicating Environmental and Natural Resources Information (Natural Resources 567)</td>
<td>5</td>
</tr>
</tbody>
</table>

#### B. Quantitative and Logical Skills

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mathematics 150, 151</td>
<td>10</td>
</tr>
<tr>
<td>2. Natural Resources Data Analysis (Natural Resources 222)</td>
<td>5</td>
</tr>
<tr>
<td>3. Computer Applications in Natural Resources Management (Natural Resources 341)</td>
<td>5</td>
</tr>
</tbody>
</table>

#### C. Foreign Language (Effective Au 91)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Foreign Language 101, 102, 103</td>
<td>10</td>
</tr>
<tr>
<td>2. Foreign Language 104 or 5 credits in approved area studies or study abroad program</td>
<td>5</td>
</tr>
</tbody>
</table>

### II. Natural Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Biological Sciences (Biology 113/114)</td>
<td>10</td>
</tr>
<tr>
<td>B. Chemistry (Chemistry 121-122)</td>
<td>10</td>
</tr>
<tr>
<td>C. Introductory Geology (Geology 121) or Introductory Agronomy (Agronomy 240)</td>
<td>5</td>
</tr>
<tr>
<td>D. Zoology 313</td>
<td>5</td>
</tr>
</tbody>
</table>
III. Social Sciences (GEC) (15)

Social Diversity
(select course from university-approved list; hours will be counted elsewhere)

A. University Offering on Individuals and Groups 5
B. Natural Resources Policy and Practice (Natural Resources 400)* 5
C. Economics 200 5

IV. Arts And Humanities (GEC) (25)

A. Two Course Chronological Overview 10
B. Three course Structured Selections, including one literature and one visual and/or performing arts course. 15

V. Natural Resources Core (NRER) (11)

A. Natural Resources 101 (201) 3
B. Ecosystem Management:
   1. Natural Resources Management (Natural Resources 200) 2

Select two from among
2. Silviculture (Forestry 321) 3
3. Wildlife Management (Natural Resources 321) 3
4. Recreation Management (Natural Resources 340) 3
5. Aquatic Management (proposed Natural Resources 355) 3
6. Range Management (proposed Natural Resources 325) 3
7. Fisheries Management (proposed Natural Resources 3aa) 3

VI. Integrated Natural Resources Management (modified Natural Resources 606, capstone) (NRER) (5)

VII. University Capstone (GEC) (5)

Contemporary Issue of Natural Resources Management (Proposed Natural Resources 6AA)
or other University approved Capstone course*
VIII. Major Specialization

IX. Summary

A. UVC
B. General Education Requirements
C. School of Natural Resources Requirements
D. Major Specialization
E. Free Electives

TOTAL HOURS

GEC hours 110-120
NRER hours 33

SCUCR Approved March 1, 1990
VIII. ENVIRONMENTAL SCIENCE Major

A. Water Option (26-28)

1. Natural Resources 618: Environmental Pollution or Civil Engineering 618, ME 618, Zoology 618 5
2. Natural Resources 601: Environmental Impact Analysis 4
3. Microbiology 521: General Microbiology 5
4. Agricultural Mech 570: Agricultural and Forest Hydrology or Geology 204: Water Resources 3-5
5. Zoology 655: Limnology 5
6. Civil Engineering 610: Analysis of Natural and Polluted Waters 4
7. Electives 8-10

B. Air Option (19)

1. Natural Resources 618: Environmental Pollution Abatement or Civil Engineering 618, ME 618, Zoology 618 5
2. Natural Resources 601: Environmental Impact Analysis 4
3. Physics 503: General Meteorology 5
4. Geography 520: Climatology 5
5. Electives 17

C. Landscape Option (24)

1. Natural Resources 618: Environmental Pollution Abatement or Civil Engineering 618, ME 618; Zoology 618 5
2. Natural Resources 601: Environmental Impact Analysis 4
3. Natural Resources 324: Forest Photointerpretation 3
4. Natural Resources 797: Remote Sensing 2
5. Geography 280: Map Reading and Interpretation 5
7. Electives 12
APPENDIX LXXV

DREESE LABORATORY ADDITION

Adopted by the Board of Trustees June 1, 1990
(See page 1196)
DRESEE LABORATORY ADDITION

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 1, 1990
APPENDIX LXXVI

WINDOW REPLACEMENTS (PAGE HALL)
POSTLE HALL RENOVATIONS
REGIONAL CAMPUS IMPROVEMENTS (NEWARK)
1960 KENNY ROAD RENOVATION

Adopted by the Board of Trustees June 1, 1990
(See page 1197)
June 1, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PAGE HALL WINDOW REPLACEMENT

Tabulation of Bids

Bids received by The Ohio State University on April 17, 1990. Bids opened by Tamara Bell and tabulated by Ray Yancik. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>M. Reiser</th>
<th>James Gribben</th>
<th>T &amp; F Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$150,000.00</td>
<td>$88,880.00</td>
<td>$104,340.00</td>
<td>$123,850.00</td>
</tr>
<tr>
<td>Alt. C-1 (Venetian Blinds)</td>
<td>7,500.00</td>
<td>3,170.00</td>
<td>2,940.00</td>
<td>2,995.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$157,500.00</td>
<td>$92,050.00</td>
<td>$107,280.00</td>
<td>$126,845.00</td>
</tr>
</tbody>
</table>
PAGE HALL
WINDOW REPLACEMENT

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 1, 1990
June 1, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS
POSTLE HALL CHILLED WATER DISTRIBUTION IMPROVEMENTS

Tabulation of Bids

Bids received by the State of Ohio, Division of Public Works on April 10, 1990. Bids opened by Geri Hendrickson and tabulated by Elizabeth Foster. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>HVAC Contract</th>
<th>Estimate</th>
<th>J. A. Guy *</th>
<th>Sauer</th>
<th>J. A. Croson</th>
<th>Farber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$304,386.00</td>
<td>$297,300.00</td>
<td>$299,700.00</td>
<td>$316,970.00</td>
<td>$329,700.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$304,386.00</td>
<td>$297,300.00</td>
<td>$299,700.00</td>
<td>$316,970.00</td>
<td>$329,700.00</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alt. H-1 (Standby Pumps)</td>
<td>20,441.00</td>
<td>23,000.00</td>
<td>24,500.00</td>
<td>26,190.00</td>
<td>30,000.00</td>
</tr>
<tr>
<td>Alt. H-2 (Stainless Steel Cooling Tower Components)</td>
<td>12,000.00</td>
<td>14,000.00</td>
<td>12,850.00</td>
<td>11,050.00</td>
<td>12,000.00</td>
</tr>
<tr>
<td>Alt. H-3 (Demolition of Chiller &amp; Equipment)</td>
<td>6,100.00</td>
<td>11,000.00</td>
<td>7,250.00</td>
<td>15,700.00</td>
<td>13,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric Contract</th>
<th>Estimate</th>
<th>Romanoff *</th>
<th>Power National</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$40,323.00</td>
<td>$33,680.00</td>
<td>$42,700.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$40,323.00</td>
<td>$33,680.00</td>
<td>$42,700.00</td>
</tr>
<tr>
<td>Alternates not taken:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alt. E-1 (Standby Pumps)</td>
<td>2,819.00</td>
<td>4,885.00</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Alt. E-2 (Demolition for Chiller &amp; Equipment)</td>
<td>820.00</td>
<td>765.00</td>
<td>1,375.00</td>
</tr>
</tbody>
</table>
POSTLE HALL
CHILLED WATER
DISTRIBUTION IMPROVEMENTS

OFFICE OF BUSINESS AND ADMINISTRATION
JUNE 1, 1990
June 1, 1990

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

NEWARK REGIONAL CAMPUS PARKING LOT RENOVATION

Tabulation of Bids

Bids received by the State of Ohio, Division of Public Works, on April 3, 1990. Bids opened by Gari Hendrickson and tabulated by Elizabeth Foster. Awards indicated with an "*".

<table>
<thead>
<tr>
<th>General Contract</th>
<th>Estimate</th>
<th>Miller &amp; Strawn</th>
<th>Newark Asphalt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$344,888.00</td>
<td>$308,746.60</td>
<td>$325,182.00</td>
</tr>
<tr>
<td>Alt. G-1 (Wheel stops, ground mounting posts &amp; striping)</td>
<td>15,484.00</td>
<td>10,280.00</td>
<td>14,981.00</td>
</tr>
<tr>
<td>Alt. G-2 (Tack Cost)</td>
<td>23,976.00</td>
<td>20,581.00</td>
<td>22,639.10</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$384,348.00</strong></td>
<td><strong>$339,607.60</strong></td>
<td><strong>$362,802.10</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Contract (Continued)</th>
<th>Game Cox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$436,674.01</td>
</tr>
<tr>
<td>Alt. G-1 (Wheel stops, ground mounting posts &amp; striping)</td>
<td>22,548.00</td>
</tr>
<tr>
<td>Alt. G-2 (Tack Cost)</td>
<td>20,581.00</td>
</tr>
<tr>
<td><strong>Total General Contract</strong></td>
<td><strong>$478,803.01</strong></td>
</tr>
</tbody>
</table>
**June 1, 1990**

**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS**

**1960 KENNY ROAD RENOVATION**

**Tabulation of Bids**

Bids received by The Ohio State University on April 11, 1990. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "*".

### General Contract

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>Ed Ross *</th>
<th>GM</th>
<th>Functional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$425,000.00</td>
<td>$271,700.00</td>
<td>$286,890.00</td>
<td>$297,900.00</td>
</tr>
<tr>
<td>Alt. G-1</td>
<td></td>
<td>13,895.00</td>
<td>10,754.00</td>
<td>14,100.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$425,000.00</td>
<td>$285,595.00</td>
<td>$297,644.00</td>
<td>$312,000.00</td>
</tr>
</tbody>
</table>

**General Contract (Continued)**

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>Ed Ross *</th>
<th>GM</th>
<th>Functional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$299,163.00</td>
<td>$300,940.00</td>
<td>$301,624.00</td>
<td>$313,313.00</td>
</tr>
<tr>
<td>Alt. G-1</td>
<td>13,000.00</td>
<td>9,600.00</td>
<td>14,621.00</td>
<td>13,676.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$312,163.00</td>
<td>$310,540.00</td>
<td>$316,245.00</td>
<td>$326,919.00</td>
</tr>
</tbody>
</table>

**General Contract (Continued)**

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>Ed Ross *</th>
<th>GM</th>
<th>Functional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$317,500.00</td>
<td>$321,446.00</td>
<td>$327,700.00</td>
<td>$334,224.00</td>
</tr>
<tr>
<td>Alt. G-1</td>
<td>14,855.00</td>
<td>15,600.00</td>
<td>13,600.00</td>
<td>16,750.00</td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$332,355.00</td>
<td>$337,046.00</td>
<td>$341,300.00</td>
<td>$350,974.00</td>
</tr>
</tbody>
</table>

**General Contract (Continued)**

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>Ed Ross *</th>
<th>GM</th>
<th>Functional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$347,000.00</td>
<td>$360,000.00</td>
<td>$360,000.00</td>
<td>$360,000.00</td>
</tr>
<tr>
<td>Alt. G-1</td>
<td>15,700.00</td>
<td>11,200.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total General Contract</td>
<td>$362,700.00</td>
<td>$371,200.00</td>
<td>$371,200.00</td>
<td>$371,200.00</td>
</tr>
</tbody>
</table>

### Fire Protection Contract

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>Ed Ross *</th>
<th>GM</th>
<th>Functional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Bid</td>
<td>$20,000.00</td>
<td>$29,000.00</td>
<td>$32,500.00</td>
<td>$47,330.00</td>
</tr>
<tr>
<td>Total Fire Protection Contract</td>
<td>$20,000.00</td>
<td>$29,000.00</td>
<td>$32,500.00</td>
<td>$47,330.00</td>
</tr>
<tr>
<td>Description</td>
<td>Estimate</td>
<td>Walls-Carroll</td>
<td>Bruce &amp; Roman</td>
<td>Clasgoett</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-----------</td>
<td>---------------</td>
<td>---------------</td>
<td>-----------</td>
</tr>
<tr>
<td>HVAC Contract Base Bid</td>
<td>$64,000.00</td>
<td>$53,400.00</td>
<td>$61,300.00</td>
<td>$61,900.00</td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$64,000.00</td>
<td>$53,400.00</td>
<td>$61,300.00</td>
<td>$61,900.00</td>
</tr>
<tr>
<td>HVAC Contract (Continued) Base Bid</td>
<td>$80,000.00</td>
<td>$81,300.00</td>
<td>$89,000.00</td>
<td></td>
</tr>
<tr>
<td>Total HVAC Contract</td>
<td>$80,000.00</td>
<td>$81,300.00</td>
<td>$89,000.00</td>
<td></td>
</tr>
<tr>
<td>Electric Contract Base Bid</td>
<td>$250,000.00</td>
<td>$204,007.00</td>
<td>$235,569.00</td>
<td>$241,436.00</td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$250,000.00</td>
<td>$204,007.00</td>
<td>$235,569.00</td>
<td>$241,436.00</td>
</tr>
<tr>
<td>Electric Contract (Continued) Base Bid</td>
<td>$249,500.00</td>
<td>$285,100.00</td>
<td>$288,000.00</td>
<td></td>
</tr>
<tr>
<td>Total Electric Contract</td>
<td>$249,500.00</td>
<td>$285,100.00</td>
<td>$288,000.00</td>
<td></td>
</tr>
</tbody>
</table>
THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Budgeted Resources
(In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Campus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$304.64</td>
<td>$302.75</td>
<td>$320.15</td>
</tr>
<tr>
<td>Student Fees</td>
<td>158.69</td>
<td>161.57</td>
<td>175.31</td>
</tr>
<tr>
<td>Other Resources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>102.88</td>
<td>102.88</td>
<td>107.84</td>
</tr>
<tr>
<td>Ohio Grants and Contracts</td>
<td>15.53</td>
<td>13.38</td>
<td>14.16</td>
</tr>
<tr>
<td>Local Grants and Contracts</td>
<td>13.84</td>
<td>13.84</td>
<td>14.28</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>61.86</td>
<td>64.55</td>
<td>66.95</td>
</tr>
<tr>
<td>Endowment Income</td>
<td>10.35</td>
<td>10.35</td>
<td>11.05</td>
</tr>
<tr>
<td>Department and University Services</td>
<td>28.77</td>
<td>28.74</td>
<td>32.38</td>
</tr>
<tr>
<td>Auxiliary Sales &amp; Charges</td>
<td>86.25</td>
<td>84.56</td>
<td>87.44</td>
</tr>
<tr>
<td>Hospitals &amp; CHRI Services</td>
<td>222.45</td>
<td>222.45</td>
<td>255.09</td>
</tr>
<tr>
<td>Other Sources</td>
<td>13.54</td>
<td>13.05</td>
<td>16.28</td>
</tr>
<tr>
<td>Total Other Resources</td>
<td>$555.47</td>
<td>$533.78</td>
<td>$605.47</td>
</tr>
<tr>
<td>Total Central Campus</td>
<td>$1,018.80</td>
<td>$1,018.10</td>
<td>$1,100.93</td>
</tr>
</tbody>
</table>

Regional Campuses

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>13.30</td>
<td>13.44</td>
<td>14.19</td>
</tr>
<tr>
<td>Student Fees</td>
<td>9.77</td>
<td>10.95</td>
<td>12.23</td>
</tr>
<tr>
<td>Other Resources</td>
<td>4.58</td>
<td>4.86</td>
<td>5.17</td>
</tr>
<tr>
<td>Total Regional Campuses</td>
<td>$27.65</td>
<td>$29.25</td>
<td>$31.59</td>
</tr>
</tbody>
</table>

OARDC

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>21.70</td>
<td>21.70</td>
<td>23.06</td>
</tr>
<tr>
<td>Federal</td>
<td>7.60</td>
<td>7.60</td>
<td>7.75</td>
</tr>
<tr>
<td>All Other</td>
<td>4.54</td>
<td>4.54</td>
<td>4.30</td>
</tr>
<tr>
<td>Total OARDC</td>
<td>$33.84</td>
<td>$33.84</td>
<td>$35.11</td>
</tr>
</tbody>
</table>

Total University

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>339.64</td>
<td>337.89</td>
<td>357.40</td>
</tr>
<tr>
<td>Student Fees</td>
<td>168.46</td>
<td>172.52</td>
<td>187.54</td>
</tr>
<tr>
<td>Other Resources</td>
<td>572.19</td>
<td>570.78</td>
<td>622.69</td>
</tr>
<tr>
<td>Total University</td>
<td>$1,080.29</td>
<td>$1,081.19</td>
<td>$1,167.63</td>
</tr>
</tbody>
</table>

UBP/June 1, 1990
# Budgeted Uses

## (In Millions of Dollars)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Campus</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational &amp; General</td>
<td>$689.15</td>
<td>$690.35</td>
<td>$732.98</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence &amp; Dining Halls</td>
<td>38.65</td>
<td>37.11</td>
<td>38.48</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>21.93</td>
<td>21.93</td>
<td>23.12</td>
</tr>
<tr>
<td>Other Auxiliaries</td>
<td>32.02</td>
<td>31.43</td>
<td>32.80</td>
</tr>
<tr>
<td>Total Auxiliaries</td>
<td>$92.60</td>
<td>$90.47</td>
<td>$94.40</td>
</tr>
<tr>
<td>University Hospitals &amp; CHRI</td>
<td>236.94</td>
<td>236.94</td>
<td>271.80</td>
</tr>
<tr>
<td><strong>Total Central Campus</strong></td>
<td>$1,018.69</td>
<td>$1,017.76</td>
<td>$1,099.18</td>
</tr>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Technical Institute</td>
<td>6.57</td>
<td>6.94</td>
<td>7.59</td>
</tr>
<tr>
<td>Lima Campus</td>
<td>5.49</td>
<td>5.11</td>
<td>6.36</td>
</tr>
<tr>
<td>Mansfield Campus</td>
<td>4.94</td>
<td>5.16</td>
<td>5.72</td>
</tr>
<tr>
<td>Marion Campus</td>
<td>4.74</td>
<td>4.60</td>
<td>5.15</td>
</tr>
<tr>
<td>Newark Campus</td>
<td>5.68</td>
<td>5.92</td>
<td>6.65</td>
</tr>
<tr>
<td><strong>Total Regional Campuses</strong></td>
<td>$27.42</td>
<td>$27.73</td>
<td>$31.47</td>
</tr>
<tr>
<td>OARDC</td>
<td>33.84</td>
<td>33.84</td>
<td>35.11</td>
</tr>
<tr>
<td><strong>Total Uses</strong></td>
<td>$1,079.95</td>
<td>$1,079.33</td>
<td>$1,165.76</td>
</tr>
</tbody>
</table>

UBP/June 1, 1990
### Student Fee Schedule (Fees Per Quarter)

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours Enrolment</th>
<th>Instructor Fees</th>
<th>General Fees</th>
<th>Resident Total</th>
<th>Non-Resident Tuition</th>
<th>Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate Colleges</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>0</td>
<td>53</td>
<td>10</td>
<td>63</td>
<td>64</td>
<td>127</td>
</tr>
<tr>
<td>Allied Medical Prof.</td>
<td>1</td>
<td>105</td>
<td>19</td>
<td>124</td>
<td>128</td>
<td>252</td>
</tr>
<tr>
<td>Architecture</td>
<td>2</td>
<td>131</td>
<td>29</td>
<td>160</td>
<td>256</td>
<td>416</td>
</tr>
<tr>
<td>The Arts</td>
<td>3</td>
<td>157</td>
<td>38</td>
<td>195</td>
<td>383</td>
<td>578</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>4</td>
<td>209</td>
<td>51</td>
<td>260</td>
<td>511</td>
<td>771</td>
</tr>
<tr>
<td>Business</td>
<td>5</td>
<td>262</td>
<td>64</td>
<td>326</td>
<td>639</td>
<td>965</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>6</td>
<td>314</td>
<td>77</td>
<td>391</td>
<td>767</td>
<td>1,158</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>7</td>
<td>366</td>
<td>89</td>
<td>455</td>
<td>894</td>
<td>1,349</td>
</tr>
<tr>
<td>Education</td>
<td>8</td>
<td>419</td>
<td>102</td>
<td>521</td>
<td>1,022</td>
<td>1,543</td>
</tr>
<tr>
<td>Engineering</td>
<td>9</td>
<td>471</td>
<td>115</td>
<td>586</td>
<td>1,150</td>
<td>1,736</td>
</tr>
<tr>
<td>Health, Phys. Educ., &amp; Rec.</td>
<td>10</td>
<td>523</td>
<td>128</td>
<td>651</td>
<td>1,278</td>
<td>1,929</td>
</tr>
<tr>
<td>Human Ecology</td>
<td>11</td>
<td>576</td>
<td>140</td>
<td>716</td>
<td>1,405</td>
<td>2,121</td>
</tr>
<tr>
<td>Humanities</td>
<td>12+</td>
<td>628</td>
<td>153</td>
<td>781</td>
<td>1,533</td>
<td>2,314</td>
</tr>
<tr>
<td><strong>Graduate School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>0</td>
<td>60</td>
<td>10</td>
<td>70</td>
<td>88</td>
<td>158</td>
</tr>
<tr>
<td>Health, Phys. Educ., &amp; Rec.</td>
<td>1</td>
<td>119</td>
<td>19</td>
<td>138</td>
<td>176</td>
<td>314</td>
</tr>
<tr>
<td>Natural Resources</td>
<td>2</td>
<td>191</td>
<td>31</td>
<td>222</td>
<td>352</td>
<td>574</td>
</tr>
<tr>
<td>Nursing</td>
<td>3</td>
<td>286</td>
<td>46</td>
<td>332</td>
<td>528</td>
<td>860</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>4</td>
<td>382</td>
<td>61</td>
<td>443</td>
<td>704</td>
<td>1,147</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>5</td>
<td>477</td>
<td>77</td>
<td>554</td>
<td>881</td>
<td>1,435</td>
</tr>
<tr>
<td>Social Work</td>
<td>6</td>
<td>572</td>
<td>92</td>
<td>664</td>
<td>1,057</td>
<td>1,721</td>
</tr>
<tr>
<td>University College</td>
<td>7</td>
<td>668</td>
<td>107</td>
<td>775</td>
<td>1,233</td>
<td>2,008</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>763</td>
<td>122</td>
<td>885</td>
<td>1,409</td>
<td>2,294</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>859</td>
<td>138</td>
<td>997</td>
<td>1,585</td>
<td>2,582</td>
</tr>
<tr>
<td></td>
<td>10+</td>
<td>954</td>
<td>153</td>
<td>1,107</td>
<td>1,761</td>
<td>2,868</td>
</tr>
</tbody>
</table>

UBP/June 1, 1990
## Student Fee Schedule (Fees Per Quarter)

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours Enroll</th>
<th>Instruct. Fees</th>
<th>General Fees</th>
<th>Resident Total</th>
<th>Non-Resident Tuition</th>
<th>Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduate Professional</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Law</strong> (Fees Per Semester)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>106</td>
<td>15</td>
<td>121</td>
<td>176</td>
<td>297</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>211</td>
<td>29</td>
<td>240</td>
<td>351</td>
<td>591</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>338</td>
<td>46</td>
<td>384</td>
<td>562</td>
<td>946</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>506</td>
<td>69</td>
<td>575</td>
<td>863</td>
<td>1,418</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>675</td>
<td>92</td>
<td>767</td>
<td>1,124</td>
<td>1,891</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>864</td>
<td>115</td>
<td>959</td>
<td>1,405</td>
<td>2,344</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1,013</td>
<td>138</td>
<td>1,151</td>
<td>1,686</td>
<td>2,837</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1,182</td>
<td>161</td>
<td>1,343</td>
<td>1,967</td>
<td>3,310</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1,350</td>
<td>184</td>
<td>1,534</td>
<td>2,248</td>
<td>3,782</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1,519</td>
<td>207</td>
<td>1,726</td>
<td>2,529</td>
<td>4,255</td>
<td></td>
</tr>
<tr>
<td>10+</td>
<td>1,688</td>
<td>230</td>
<td>1,918</td>
<td>2,810</td>
<td>4,728</td>
<td></td>
</tr>
<tr>
<td><strong>Pharmacy, Doctor of</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Fees Per Quarter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>71</td>
<td>10</td>
<td>81</td>
<td>117</td>
<td>198</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>141</td>
<td>19</td>
<td>160</td>
<td>234</td>
<td>394</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>225</td>
<td>31</td>
<td>256</td>
<td>375</td>
<td>611</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>338</td>
<td>46</td>
<td>384</td>
<td>562</td>
<td>946</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>450</td>
<td>61</td>
<td>511</td>
<td>749</td>
<td>1,260</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>563</td>
<td>77</td>
<td>640</td>
<td>937</td>
<td>1,577</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>676</td>
<td>92</td>
<td>768</td>
<td>1,124</td>
<td>1,892</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>788</td>
<td>107</td>
<td>895</td>
<td>1,311</td>
<td>2,066</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>901</td>
<td>122</td>
<td>1,023</td>
<td>1,498</td>
<td>2,521</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1,013</td>
<td>138</td>
<td>1,151</td>
<td>1,686</td>
<td>2,837</td>
<td></td>
</tr>
<tr>
<td>10+</td>
<td>1,126</td>
<td>153</td>
<td>1,279</td>
<td>1,873</td>
<td>3,152</td>
<td></td>
</tr>
</tbody>
</table>

UBP/June 1, 1990
# Student Fee Schedule (Fees Per Quarter)

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours Enrollment</th>
<th>Credit Hours Instruct. Fees</th>
<th>Credit Hours General Fees</th>
<th>Credit Hours Resident Total</th>
<th>Credit Hours Non-Resident Tuition</th>
<th>Credit Hours Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduate Professional</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Fees Per Quarter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>125</td>
<td>10</td>
<td>135</td>
<td>253</td>
<td>388</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>250</td>
<td>19</td>
<td>269</td>
<td>506</td>
<td>775</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>400</td>
<td>31</td>
<td>431</td>
<td>810</td>
<td>1,241</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>599</td>
<td>46</td>
<td>645</td>
<td>1,215</td>
<td>1,860</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>799</td>
<td>61</td>
<td>860</td>
<td>1,620</td>
<td>2,480</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>999</td>
<td>77</td>
<td>1,076</td>
<td>2,026</td>
<td>3,102</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1,199</td>
<td>92</td>
<td>1,291</td>
<td>2,431</td>
<td>3,722</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1,399</td>
<td>107</td>
<td>1,506</td>
<td>2,836</td>
<td>4,342</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1,598</td>
<td>122</td>
<td>1,720</td>
<td>3,241</td>
<td>4,961</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1,798</td>
<td>138</td>
<td>1,936</td>
<td>3,666</td>
<td>5,582</td>
<td></td>
</tr>
<tr>
<td>10+</td>
<td>1,998</td>
<td>153</td>
<td>2,151</td>
<td>4,051</td>
<td>6,202</td>
<td></td>
</tr>
<tr>
<td>Dentistry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optometry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Fees Per Quarter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>101</td>
<td>10</td>
<td>111</td>
<td>226</td>
<td>337</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>201</td>
<td>19</td>
<td>220</td>
<td>452</td>
<td>672</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>322</td>
<td>31</td>
<td>353</td>
<td>724</td>
<td>1,077</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>483</td>
<td>46</td>
<td>529</td>
<td>1,085</td>
<td>1,614</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>644</td>
<td>61</td>
<td>705</td>
<td>1,447</td>
<td>2,152</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>805</td>
<td>77</td>
<td>882</td>
<td>1,809</td>
<td>2,691</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>966</td>
<td>92</td>
<td>1,058</td>
<td>2,171</td>
<td>3,229</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1,127</td>
<td>107</td>
<td>1,234</td>
<td>2,533</td>
<td>3,767</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1,280</td>
<td>122</td>
<td>1,410</td>
<td>2,894</td>
<td>4,304</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1,449</td>
<td>138</td>
<td>1,587</td>
<td>3,256</td>
<td>4,843</td>
<td></td>
</tr>
<tr>
<td>10+</td>
<td>1,610</td>
<td>153</td>
<td>1,763</td>
<td>3,618</td>
<td>5,381</td>
<td></td>
</tr>
</tbody>
</table>

UBP/June 1, 1990
### THE OHIO STATE UNIVERSITY
1990-91 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

<table>
<thead>
<tr>
<th>College or School</th>
<th>Credit Hours Enrollment</th>
<th>Instruct. Fees</th>
<th>Gen. Fees</th>
<th>Resident Total</th>
<th>Non-Resident Tuition</th>
<th>Non-Resident Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regional Campuses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Undergraduate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>53</td>
<td>8</td>
<td>61</td>
<td>64</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>105</td>
<td>15</td>
<td>120</td>
<td>128</td>
<td>248</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>131</td>
<td>23</td>
<td>154</td>
<td>256</td>
<td>410</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>157</td>
<td>31</td>
<td>188</td>
<td>383</td>
<td>571</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>209</td>
<td>41</td>
<td>250</td>
<td>511</td>
<td>761</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>262</td>
<td>51</td>
<td>313</td>
<td>639</td>
<td>952</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>314</td>
<td>62</td>
<td>376</td>
<td>767</td>
<td>1,143</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>366</td>
<td>72</td>
<td>438</td>
<td>894</td>
<td>1,332</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>419</td>
<td>82</td>
<td>501</td>
<td>1,022</td>
<td>1,523</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>471</td>
<td>92</td>
<td>563</td>
<td>1,150</td>
<td>1,713</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>523</td>
<td>103</td>
<td>626</td>
<td>1,278</td>
<td>1,904</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>576</td>
<td>113</td>
<td>689</td>
<td>1,405</td>
<td>2,094</td>
<td></td>
</tr>
<tr>
<td>12+</td>
<td>628</td>
<td>123</td>
<td>751</td>
<td>1,533</td>
<td>2,284</td>
<td></td>
</tr>
<tr>
<td><strong>Graduate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>60</td>
<td>8</td>
<td>68</td>
<td>88</td>
<td>156</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>119</td>
<td>15</td>
<td>134</td>
<td>176</td>
<td>310</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>191</td>
<td>25</td>
<td>216</td>
<td>352</td>
<td>568</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>286</td>
<td>37</td>
<td>323</td>
<td>528</td>
<td>851</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>382</td>
<td>49</td>
<td>431</td>
<td>704</td>
<td>1,135</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>477</td>
<td>62</td>
<td>539</td>
<td>881</td>
<td>1,420</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>572</td>
<td>74</td>
<td>646</td>
<td>1,057</td>
<td>1,703</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>668</td>
<td>86</td>
<td>754</td>
<td>1,233</td>
<td>1,987</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>763</td>
<td>98</td>
<td>861</td>
<td>1,409</td>
<td>2,270</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>859</td>
<td>111</td>
<td>970</td>
<td>1,585</td>
<td>2,555</td>
<td></td>
</tr>
<tr>
<td>10+</td>
<td>954</td>
<td>123</td>
<td>1,077</td>
<td>1,761</td>
<td>2,838</td>
<td></td>
</tr>
</tbody>
</table>

UBF/June 1, 1990
AUTHORIZATION

Under State law, provision is made for supplementing a person's retirement benefits by the purchase of prior years of other public and/or military service.

The purchase of 3 years of service by the University is consistent with the terms stipulated in the original letter of offer and subsequent appointment of Vice President Thomas L. Tobin.

Vice President Thomas L. Tobin qualifies under this law for the purchase of additional years of such credit from Public Employees Retirement System of Ohio, accordingly.

Effective September 1, 1990, the Secretary of the Board of Trustees is authorized to implement the purchase of such prior service credit (not to exceed a total of three (3) years) provided in Section 145 of the Ohio Revised Code in the Public Employees Retirement System of Ohio on behalf of Thomas L. Tobin and that the cost of service should be paid from unrestricted monies received by the University pursuant to Section 3345.16 of the Ohio Revised Code.
THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND SIXTY-THIRD MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, June 26, 1990

Pursuant to paragraph (B) of bylaw 3335-1-01 of The Administrative Code of The Ohio State University, the Board met upon the call of the Chairperson, Shirley D. Bowser, in a special meeting on Tuesday, June 26, 1990, at 8:00 p.m., at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.
June 26, 1990 meeting, Board of Trustees

The Chairperson, Mrs. Bowser, called a special meeting of the Board of Trustees to order on June 26, 1990, at 8:05 a.m. She requested the Secretary to call the roll.


--0--

INTRODUCTION OF THEODORE S. CELESTE

Mrs. Bowser:

I would like to take a moment to introduce our newest Trustee, Theodore S. Celeste. Mr. Celeste was appointed June 19, 1990, to succeed John W. Berry.

Mr. Celeste is founder, chairman, and president of Advanced Interactive Video, Inc., an electronic marketing and promotions company. He is also president of Celeste & Santer, Inc., a residential real estate brokerage firm located in Grandview Heights.

He brings to this Board a broad and well-rounded background in community involvement and state government, and we welcome you, Ted, and look forward to working with you.

--0--

The meeting recessed into Executive Session for the purpose of considering legal issues and the appointment of a president for The Ohio State University.

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing motion by unanimous roll call vote.

--0--

Mrs. Bowser reconvened the meeting at 8:35 p.m.


--0--

Mrs. Bowser:

I would now like to ask Mr. Kessler, Chair of the Educational Affairs Committee and Chair of the Presidential Search Committee to report on the status of the Search Committee process.

Mr. Kessler:

Thank you, Madam Chairperson. Ladies and Gentlemen, distinguished members of the faculty, students, staff, and fellow members of the Board of Trustees of this great University, in January a Presidential Search Committee composed of faculty members, students, staff, and Trustees set forth on an exhausting and far reaching search for the person best qualified to lead The Ohio State University in continued greatness in the challenging years ahead. It is my privilege as Chairman of this
Mr. Kessler: (contd)

Selection Committee to recognize, in the minutes of this meeting and in the records of this great University, the commitment to excellence of all who served in this process. They offered greatly of themselves, going beyond reasonable demands of their time and patience to produce the excellent and inspired recommendation we present here today.

The Committee considered approximately 150 outstanding leaders for the presidency including a number of women and minority candidates who were finalists. The candidates included the sitting presidents of many of the finest institutions of the land. In interviews with these esteemed leaders, it became apparent that the job of serving as the President of The Ohio State University would have represented the pinnacle of their career achievements. That fact only served to increase our pride in Ohio State.

In choosing a new President the Committee was deeply impressed by the energy, dedication, and vision of the man I nominate tonight, E. Gordon Gee, E.D. Through a thorough review process, we have concluded that he is uniquely qualified to lead this great University to new horizons in excellence in the coming years. Dr. Gee served as President of West Virginia University from 1981-1985. Since 1985 he has served as President of the University of Colorado. The holder of a law degree and doctorate in education from Columbia University, Dr. Gee has also served as a law school dean and professor. Throughout his career Dr. Gee has shown himself to be a man with a strong vision of the role of public institutions of higher learning. Equally important, he has proven himself as an energetic and an effective advocate of excellence both inside and outside the universities he has served. In doing so, Dr. Gee has earned the respect and admiration of the private and public sectors as well as the students, faculty, and staff. Dr. Gee will be a dynamic and effective leader for one of Ohio's most important resources, The Ohio State University.

Madam Chairperson, Members of the Board, it is my honor to place before you a motion to accept Dr. E. Gordon Gee as our next President.

In accordance with Section 3335.09 of the Ohio Revised Code, I move the appointment of Dr. E. Gordon Gee to the Presidency of The Ohio State University effective September 1, 1990, at the annual salary of $155,000.00 and with all allowances, rights, privileges, perquisites, duties and responsibilities of the office and subject to such other arrangements and adjustments which may be mutually agreed upon.

I further move that the Chairperson of the Board of Trustees be authorized to negotiate with Dr. Gee to formalize his relationship with The Ohio State University and, in so doing, to enter into any contractual relationship which she may deem necessary and appropriate consistent with this motion.

Mrs. Bowser:

We have a motion on the table to appoint Dr. E. Gordon Gee as the eleventh President of The Ohio State University.
June 26, 1990 meeting, Board of Trustees

Mrs. Bowser: (contd)

I would like to make a comment myself. As Chair of the Board of Trustees, I am pleased to support the nomination of Dr. Gee. Dr. Gee's credentials are unsurpassed and his energy, ability to relate to people inside and outside the University, and his understanding of our interests at The Ohio State University truly set him above all other distinguished candidates.

Dr. Gee's list of accomplishments is a long one, having served five years at the University of Colorado and previously as President of West Virginia University. He is educated in law, with a doctorate in education, in addition to serving as a Law School Dean and Professor. He has served as a Judicial Fellow and a Senior Staff Assistant to the Chief Justice of the United States Supreme Court. Yet there is much more to Dr. Gee than an impressive list of achievements. There is an electricity about this man which is truly inspiring. He is an excellent and perceptive listener. He is also a determined and strong leader with a vision of the possibilities of this great University. He will be an outstanding addition to the Columbus and Ohio communities.

I also want to applaud the Search Committee of students, faculty, staff, and Trustees for their outstanding job in finding and recommending Dr. Gee. It has been a six-month process in which all members participated. I especially want to thank fellow trustees, Joel Teaford and Alex Shumate, and our Chairman, Jack Kessler. Locating a president capable of leading a major university is a difficult task. The Selection Committee's deep commitment to the quality and integrity of the selection process was essential to attracting to the University a President of Dr. Gee's quality and attainment. We are in their debt. A great many of them are in the audience tonight and I would like them to stand and receive our applause and thanks.

I reiterate my strongest endorsement of Dr. Gee to serve as the next President of The Ohio State University. He is uniquely qualified to build upon the strong foundation laid by Edward Jennings and his predecessors. Under his leadership, the University will be able to leap ahead into a future brilliant with promise. Together, we will sore! Thank you.

Are there any other Trustees who would like to make a comment?

Mr. Shumate:

Just to echo the sentiments expressed by both our outstanding Chairperson, Jack Kessler, and Chair of the Board, Shirley Bowser, we indeed have an excellent candidate. I was extremely impressed with the total pool of candidates who were interested in pursuing the presidency of this great University. Again, I think it bespeaks of the strength of this University. I firmly believe that we will move forward, being one of the finest public land-grant institutions in the country under Dr. Gee's leadership.

Mrs. Bowser:

Thank you, Alex. Joel, surely you have something to say.
June 26, 1990 meeting, Board of Trustees

Mr. Teaford:

I want to particularly call attention to Jack Kessler's leadership of this Committee. We set a task of getting it done on time and everyone scoffed at that possibility, and we sit here today, in fact, early. That is because Jack kept our noses to the grindstone. His leadership made this possible and it is one of the reasons we have such a fine candidate. I also want to tip my hat to the Committee. We have had an extraordinarily good time with this Committee, and it has been a great learning experience for all of the Trustees. I think the Trustees who served on that Committee now know an awful lot about the University because we've been well educated by our fellow Committee Members.

Mrs. Bowser:

Thank you, Joel. Are there any other comments? If not, we have a motion on the table, may I have a second?

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

I would like to read a statement before we adjourn the meeting. Although Ms. Casto, because she is currently traveling in China, was unable to be present for this meeting tonight, she has asked that she be recorded as supporting the motion presented. On the basis of this, and on the basis of the fact that Mr. Wexner is not with us tonight and he, too, has indicated his support, I would like the records to reflect that Dr. E. Gordon Gee was elected unanimously by the Board to be the eleventh President of The Ohio State University and to duly note this action in the minutes.

Mr. Kessler:

I bet if the Legislature would change the rules and let the students vote, they would vote in favor, too.

Mrs. Bowser:

We will have a press briefing in the Alumni Lounge following the adjournment of this meeting. There will be a short delay, but it won't be very long. And, we hope to present to you Dr. Gee and his family.

--0--

Thereupon the Board adjourned to meet Friday, July 6, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott
Secretary

Shirley D. Bowser
Chairperson
INDEX TO OFFICERS AND EMPLOYEES
1989-90

Volume 2

A

Ajami, Riad A. ........................................ 1164
Allen, Virginia G. .................................. 1164
Amell, Samuel ....................................... 1166
Anderson, Gary A. .................................. 902
Ankeny, Melvin L. .................................. 1167
Aoki, Reiko ............................................ 810
Arnfield, Anthony J. ................................ 1171
Arnold, Robert L. ..................................... 809,1163
Asher, Herbert B. ..................................... 887
Ausich, William I. .................................... 1167

B

Baldwin, E. Dean ..................................... 1162
Ballam, Deborah A. ................................... 1164
Barone, John J. ....................................... 658,890,911, 982,997,1138,1140
Barrick, R. Kirby, Jr. .................................. 902
Bash, Winston D. ....................................... 1004
Beach, Thomas P. ...................................... 1169
Bednarski, Richard M. ................................ 1172
Bell, David C. ......................................... 1169
Bell, Karen A. .......................................... 1160
Bender, Charles F. ..................................... 984
Bender, Ralph E. ....................................... 905
Berry, John W. ........................................ 640,646, 790,844,1037
Beuerlein, James E. ................................... 1162
Beytah, Francis X. ..................................... 901
Bhushan, Bharat ........................................ 994
Bickers, Rex G. ......................................... 810
Billman, George E. ..................................... 1168
Blakeslee, James R., Jr. .............................. 669
Block, Frank E., Jr. .................................... 902
Blue, Thomas E. ........................................ 1165
Boatwright, McHenry R. ............................. 1172
Bode, Frederick R. ..................................... 1169
Boerner, Ralph E. J. ................................... 668,1159
Bondyby, Vladimir E. ................................ 669
Boogaard, Wesley L. ................................... 1167
Borton, Ronald J. ....................................... 902
Bourguignon, Erika E. ................................ 996
Bowser, Shirley D. .................................... 649,656,661,798, 814,913,982,1004, 1037,1138-1139,1252-1255
Bradley, Lisa K. ........................................ 1163
Brierley, Gerald P. ..................................... 1159
Broekema, Andrew J. .................................. 904,1172
Brown, Douglas E. .................................... 1173

Brown, Robert B. ..................................... 1159
Brueggemeier, Robert W. ............................. 1170
Brunner, Marjorie L. ................................ 811
Buffer, James J., Jr. .................................. 669
Bursten, Bruce E. ...................................... 1167
Busby, Henry R. ........................................ 1160
C

Cahill, Kenneth V. .................................... 1169
Capen, Charles C. ...................................... 996
Carifa, Ralph P. ........................................ 996
Carney, Leo G. ......................................... 1170
Caslan, Luis G. ........................................ 1167
Casto, Deborah E. ...................................... 662,893, 984,1138,1179
Cawley, James D. ...................................... 1165
Celeste, Theodore S. ................................... 1252
Chandrasekaran, B. .................................... 1159
Charney, Ruth M. ....................................... 1167
Chen, Chung-Min ....................................... 669
Chism, Grady W., III. .................................. 1162
Christensen, Richard N. .............................. 1165
Clark, Bunny C. ......................................... 649
Conlisk, A. Terrence ................................... 1160
Conroy, Mark E. ........................................ 1166
Constantinou, Stavros T. ............................ 1171
Copeland, Christopher ............................... 1169
Corbett, Edward P.J. .................................. 1172
Costanza, Lynn C. ..................................... 1163
Cottrell, Robert D. ..................................... 669
Coulter, James M. ...................................... 670
Cox, Daniel L. .......................................... 1167
Creedon, Pamela J. ..................................... 1171
Cremers, Marion L. .................................. 1165
Cromer, Barbara A. .................................... 1168
Csuri, Charles A. ....................................... 1172
Cunningham, Isabel .................................... 903
Curley, Robert W., Jr. .................................. 1170
D

Dahl, Mark R. .......................................... 1168
Dalzell, Julie A. ......................................... 1163
Davis, Eileen C. ........................................ 1163
Davis, Laurel A. ....................................... 658,722,1037
Demana, Franklin D. ................................ 1167
Dick, Warren A. ........................................ 1162
Doan, Charles A. ....................................... 905
Donat, Jane F. .......................................... 670
Downs, James W. ...................................... 1167
Ozkan, Umit S..............................1165

P
Paige, Sophia L......................647,1139,1175
Palmquist, Donald L................1162
Pandey, Bishun D.....................1167
Parker, Rebecca A....................997
Parrish, Wayne B....................996
Parsons, Donald O....................1160
Pasierski, Tomasz J...............810
Patton, Bruce R.....................1167
Patton, Joan E.......................600
Pearl, Dennis K......................1167
Pearson, Anthony C..................903
Pease, William S.....................1168
Pernell, LeRoy.......................1166
Polinski, William J................903
Pope, William F.....................1162
Pozderac, Rodney V..................670
Prescott, David H....................670

R
Raabe, John R.......................1169
Rader, Cary.........................902
Ragosin, Robert J...................1169
Reichers, Arnon E..................1161
Reid, Gary C.........................670,1169
Remy, Richard C....................1165
Reunig, Richard H..................1158
Richardson, Virginia E.............1171
Roblin, Patrick......................1165
Roche, Mark W......................1166
ロダック, アルビン C................984,1142
Rogel, Carole R....................1173
Rokhlin, Stanislav I...............1165
Rosow, Lois A.......................1163
Rothman, Glenn S...................1163
Rudd, Nancy M.......................649
Rudolph, Emanuel D................670
Ruff, Michael E.....................1169
Ruff, Paul D.........................1169
Rund, Douglas A....................1168
Rupp, Robert M......................1162
Russell, Joseph J...................790

S
Sack, Fred David....................1164
Sadayapann, PonnuSwamy...........1165
Salf, Linda J........................1172
Samimi, Mohammad..................1165
Sams, Richard A....................1172
Satiani, Bhagwan....................1169
Schmall, Leo M.....................1172
Schuller, William O................1170
Schumacher, Stephen D.............1163
Schumm, Dorothy E................1168
Schwartz, Vicki J..................1163
Schiulli, Paul W.....................688
Scott, Madison H...................650,796,846,
..........................................904,962,996,1007
Shapiro, Daniel B...................1167
Shay, Robert.........................996
Shepard, Laura A....................902
Sherman, Ralph W....................907
Shigemitsu, Junko...................1161
Shkurti, William J................1158
Shulman, Harvey G..................1161
Shumate, Alex.......................649,796,
..........................................813,1138,1254
Siegle, Ronald J....................1169
Silverberg, Alice...................1167
Simon, James W......................670
Skinner, Susie J....................1163
Slettebak, Arne E...................1160
Smith, Conrad G.....................1161,1171
Smith, Jack W, Jr..................1168
Snapka, Robert M...................1168
Snyder, Barbara R...................1166
Sokoloski, Theodore D.............670
Soundararajan, Neelam...............1161
Spillman, Russell J................813
Spinrad, Phoebe S...................1166
Srinivasan, Krishnaswamy.........1165
Stanley, David E....................670
Stanton, Robert J...................1167
Stears, Robert L....................1153
Stechison, Michael T...............670
Stewart, Philip D....................1160
Stone, Linda C.......................670
Straley, Dona S....................1161
Strauch, Arthur R...................1168
Sucheston, Louis....................1160
Sweeney, Thomas L...................890

T
Talarzyk, W. Wayne..................1160
Taylor, James D.....................672
Teaford, Hamilton J................646-649,659,673,
......................................797,799,890,893,
......................................982,1002,1037,
......................................1138-1143,1180,1255
Teich, Steven.......................810
Tennenbaum, James I................907
Thompson, Stanley R................902
Thorne, Cynthia A..................670
Tiefel, Virginia M..................1161
Tilley, George L....................908
Tober, James C.......................670
Tobin, Thomas L....................1172
Tonnies, David A...................1138,1179
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toomey, Beverly G</td>
<td>1171</td>
</tr>
<tr>
<td>Travers, Joseph B</td>
<td>1164</td>
</tr>
<tr>
<td>Tsai, Ming-Daw</td>
<td>1167</td>
</tr>
<tr>
<td>Tsao, Chang-Yong</td>
<td>903</td>
</tr>
<tr>
<td>Turnbull, Stephen J</td>
<td>810</td>
</tr>
<tr>
<td>Utik, David J</td>
<td>810</td>
</tr>
<tr>
<td>Utzinger, James D</td>
<td>909</td>
</tr>
<tr>
<td>Van Buren, Ronald C</td>
<td>670</td>
</tr>
<tr>
<td>Van Pufis, Noelle</td>
<td>1167</td>
</tr>
<tr>
<td>Van Tilburg, Emmalou</td>
<td>1162</td>
</tr>
<tr>
<td>Vandecreek, Larry</td>
<td>903</td>
</tr>
<tr>
<td>Verzar, Christine B</td>
<td>1163</td>
</tr>
<tr>
<td>Vibberts, Dana F</td>
<td>1173</td>
</tr>
<tr>
<td>Vivian, Stephan J</td>
<td>810</td>
</tr>
<tr>
<td>Votolato, Nicholas A</td>
<td>1171</td>
</tr>
<tr>
<td>Vuyosevich, Robert D</td>
<td>669</td>
</tr>
<tr>
<td>Waggoner, William F</td>
<td>1164</td>
</tr>
<tr>
<td>Wagoner, Robert H</td>
<td>1160</td>
</tr>
<tr>
<td>Walden, Graham R</td>
<td>1167</td>
</tr>
<tr>
<td>Wall, Mohan K</td>
<td>668,814</td>
</tr>
<tr>
<td>Walker, Galal L</td>
<td>1166</td>
</tr>
<tr>
<td>Walters, John D</td>
<td>1164</td>
</tr>
<tr>
<td>Wanous, John P</td>
<td>1160</td>
</tr>
<tr>
<td>Wardlaw, Gordon M</td>
<td>1168</td>
</tr>
<tr>
<td>Warren, James V</td>
<td>910</td>
</tr>
<tr>
<td>Waters, Luther, Jr.</td>
<td>902</td>
</tr>
<tr>
<td>Watson, Kim M</td>
<td>903</td>
</tr>
<tr>
<td>Webber, Sabra J</td>
<td>902,1166</td>
</tr>
<tr>
<td>Welkand, Jeffrey E</td>
<td>1169</td>
</tr>
<tr>
<td>Welsgol, Stacy</td>
<td>720-724</td>
</tr>
<tr>
<td>Wewers, Mark D</td>
<td>1168</td>
</tr>
<tr>
<td>Wexner, Leslie H</td>
<td>796,799-801,815,1138</td>
</tr>
<tr>
<td>Wharton, George W</td>
<td>1174</td>
</tr>
<tr>
<td>Wheller, John J</td>
<td>1168</td>
</tr>
<tr>
<td>Willans, Ian M</td>
<td>1167</td>
</tr>
<tr>
<td>Whitehead, Mark C</td>
<td>1164</td>
</tr>
<tr>
<td>Whiting, Larry R</td>
<td>662</td>
</tr>
<tr>
<td>Williams, Charles G</td>
<td>1159</td>
</tr>
<tr>
<td>Williams, David, II</td>
<td>1166</td>
</tr>
<tr>
<td>Wingertner, Elizabeth J</td>
<td>1163</td>
</tr>
<tr>
<td>Wolf, Milton A</td>
<td>816,886,1138</td>
</tr>
<tr>
<td>Wong, Sia K</td>
<td>1161</td>
</tr>
<tr>
<td>Woods, David D</td>
<td>1165</td>
</tr>
<tr>
<td>Wright, Ronald A</td>
<td>995</td>
</tr>
<tr>
<td>Wu, Tien H</td>
<td>1160</td>
</tr>
</tbody>
</table>
GENERAL INDEX

1989-1990 Minutes

Volume 2

A

Abbott Electric, Canton, OH ................................................................. 1031,1065
Abbott Laboratories, Abbott Park, IL ...................................................... 827
Academic Affairs Committee Report ................................................ 662,801,897,
984,1153
Academic Computing Report ............................................................... 984
Ackers, Charles H., Cancer and Cardiovascular Research Fund (The) .... 1024
Adria Laboratories, Dublin, OH ............................................................ 1190
Aerosafe, Inc., Dublin, OH ................................................................. 1193
Agricultural Affairs, Standing Committee on .................................... 1138
Agricultural Affairs Committee Report .............................................. 814,865,917,970,
1004,1179,1223
Agricultural Mechanics Technologies, Division of (ATI) ....................... 898
Agriculture, Department of, Economic Research Service, Washington, DC .......................... 680,825
Agriculture, Department of, Forest Service, Radnor, PA ....................... 823
Agriculture, Department of, Office of International Cooperation and Development, Washington, DC ...................... 681
Agriculture, Department of, Science and Education, Peoria, IL .......... 1016,1188
Agriculture, Department of, Science and Education, Washington, DC ... 923
Agway, Inc., Syracuse, NY ................................................................. 683
Air Force, Department of the, Air Force Systems Command, Boling Air Force Base, DC .................................................. 678,680,696,698,
821,923,1186,1187
Air Force, Department of the, Air Force Systems Command, Wright-Patterson Air Force Base, OH ........................................... 679,696-698,823,
824,1013,1015
Air Force, Department of the, Washington, DC ................................. 1184
AITRC, Columbus, OH ................................................................. 687,830
Alaska, University of, Fairbanks, AK ................................................... 830
Alkire, Helen P. (Honorary Degree) ..................................................... 807
All American Youth Horse Show Endowment Fund (The) ...................... 709
American Agricultural Economics Association, Ames, IA ............. 1022
American Cancer Society, Atlanta, GA .............................................. 700
American Cancer Society, Inc., New York, NY .................................. 828
American Cancer Society, Ohio Division, Inc., Dublin, OH ............... 702,928
American College of Obstetricians and Gynecologists, Philadelphia, PA .................................................................. 686
American Council of Learned Societies, New York, NY ...................... 1191
American Cyanamid Company, Danbury, CT .................................... 699
American Farmland Trust, Washington, DC ....................................... 685
American Federation for Aging Research, Inc., New York, NY ....... 701
American Foundation for Aging Research, Raleigh, NC ................... 929
American Heart Association, New Jersey Affiliate, North Brunswick, NJ 829,1021
American Institute of Indian Studies, Minneapolis, MN ..................... 702
American Lung Association, New York, NY ..................................... 1021
American Nurses’ Foundation, Inc., Kansas City, MO ...................... 829
American Psychological Association, Washington, DC ....................... 928
American-Scandinavian Foundation (The), New York, NY ................................................................. 1192
AmeriFlora ........................................................................................................................................... 815,917,970
Amoco Corporation, Naperville, IL ................................................................................................... 1190
Anatomy, Department of .................................................................................................................. 1153
Anesthesia Patient Safety Foundation, Park Ridge, IL ...................................................................... 701
Apple Computer, Inc., Cupertino, CA .............................................................................................. 699
Applied R & D, Olmsted Falls, OH ..................................................................................................... 827,1020
Arab Republic of Egypt, Embassy of the .......................................................................................... 1193
Arizona Public Service Company, Phoenix, AZ ................................................................................ 1021
Arkansas, University of, Little Rock, AR ......................................................................................... 1022
Armitage, Richard L. (Distinguished Service Award) ...................................................................... 802
Army, Department of the, Army Corps of Engineers, Vicksburg, MS ............................................. 921,1016
Army, Department of the, Army Materiel Command, Aberdeen Proving Ground, MD .............. 823
Army, Department of the, Army Materiel Command, Dover, NJ ................................................. 824
Army, Department of the, Army Materiel Command, Fort Belvoir, VA ........................................ 824
Army, Department of the, Army Materiel Command, Fort Monmouth, NJ .................................... 822
Army, Department of the, Army Research Office, Research Triangle Park, NC ....................... 696
ASI Systems International, Orange, CA ........................................................................................... 925
Asian Government, New York, NY .................................................................................................. 828
ASME Gear Research Institute, Naperville, IL .................................................................................. 687
Astra Alab AB, Sodertalje, Sweden ................................................................................................... 682,826
Authorization, Issuance and Sale of General Receipts Bonds, Series 1990 of The Ohio State University ................................................................. 938-947

B

Baker & Hostetler Law Library and Building Fund (The) ............................................................... 710
Barre, Henry J., Award for Graduate Study in Agricultural Engineering (The) .......................... 932
Battelle Columbus Lab, Columbus, OH ............................................................................................ 703
Battelle Memorial Institute, Columbus, OH ...................................................................................... 688,829
Beal, Jack L. (Distinguished Service Award) .................................................................................... 802
Beechwald Medical Center ............................................................................................................. 727
Biological Science - Parks Hall Connector Building ........................................................................ 1157
Boeing Computer Services, Seattle, WA .......................................................................................... 1190
Boots Pharmaceuticals, Inc., Shreveport, LA .................................................................................. 926
Border, Mary E., Ohio 4-H Scholarship Fund ................................................................................... 704
Botany, Department of ................................................................................................................... 898
Bowling Green State University, Bowling Green, OH .................................................................... 1022
Bricker Hall, Masonry Repairs ......................................................................................................... 1030,1065
Brookhaven National Laboratory, Upton, Long Island, NY .......................................................... 926,927
Buckeye Electric, Dayton, OH .......................................................................................................... 713,753
Buckeye Pro-Am Golf Scholarship Fund (The) .............................................................................. 689
Budget - 1989-90 Current Funds ...................................................................................................... 674,743,1007,1057
Budget - 1990-91 Current Funds ....................................................................................................... 1200-1205,1243
Budget Guidelines, 1990-91 .............................................................................................................. 1004
Butt, Harold E., Chair in Industrial Psychology Fund (The) ........................................................... 1195
Busch Boulevard Centre, Columbus, OH (The) .............................................................................. 715,761
Butler County Cooperative Extension Endowment Fund ............................................................. 693

C

California, University of, Livermore, CA ......................................................................................... 1192
California Institute of Technology, Pasadena, CA........................................................................ 684,927
Cancer Therapy and Research Foundation of South Texas, San Antonio, TX................................................. 928
Cardinal Distribution, Inc., Cancer Research Endowment Fund (The).................................................. 886-893,948
Caremark Plus, San Bernardino, CA........................................................................................................ 1027
Cargill, Inc., Aurora, IL.......................................................................................................................... 926
Cell Biology, Neurobiology, and Anatomy, Department of.................................................................. 699
CeramPhysics, Inc., Westerville, OH........................................................................................................ 1153
Chapman, James E., Baker & Hostetler Law Library Fund ................................................................ 1020
Chemical Abstracts Service, Columbus, OH......................................................................................... 832
Cheinneer, Inc., Dayton, OH.................................................................................................................. 833
Chen, Michael Shih-Yuan, Memorial Scholarship Fund (The).................................................................. 934
Chen, Shih-Yuan Michael, Scholarship Fund (The).................................................................................. 934
Chicago, City Colleges of, Chicago, IL......................................................................................................... 829
Chicago, University of, Argonne, IL........................................................................................................ 684,1191
Children's Hospital Research Foundation, Columbus, OH..................................................................... 829,1021,1191
CIBA-GEIGY Corporation, Summit, NJ........................................................................................................ 1019,1190
Circeville Water Authority, Circleville, OH............................................................................................ 701
Clark, Mike (Student).................................................................................................................................. 1177
Clemson University, Clemson, SC.............................................................................................................. 684
Clinical Research Facility Endowment Fund.............................................................................................. 835
Clinical Research International, Inc., Research Triangle Park, NC......................................................... 926
Columbus - City of, Columbus, OH........................................................................................................... 703
Columbus Foundation (The), Columbus, OH............................................................................................ 685
Columbus Health Department, Columbus, OH......................................................................................... 828,1021
Columbus Southern Power Company........................................................................................................ 717,718,763,765
Commerce, Department of, National Institute of Standards and Technology, Gaithersburg, MD........ 1014
Committee Appointments......................................................................................................................... 1138
Committee on Institutional Cooperation, Champaign, IL........................................................................... 828
Community Mutual Blue Cross Blue Shield Insurance Company, Cincinnati, OH...................................... 925
Concrete Construction, Columbus, OH........................................................................................................ 714,757
Continental Insurance, Neptune, NJ.......................................................................................................... 688
Continuing Education, Report on............................................................................................................... 801
Contractors Unlimited, Columbus, OH......................................................................................................... 714,759
Cook, Cynthia, Dissertation Scholarship in Early and Middle Childhood Education............................... 1028
Curriculum Reform in Agriculture and Natural Resources...................................................................... 1179,1223
Cystic Fibrosis Foundation, Bethesda, MD............................................................................................... 1191
Dad's Products Company, Inc., Meadville, PA............................................................................................ 700
Dade County Public Schools, Miami, FL.................................................................................................. 701
Dalmation Fire, Mason, OH........................................................................................................................ 1199,1233
Deafness Research Foundation, New York, NY........................................................................................ 702,928
Defense, Department of, Defense Construction Supply Center, Columbus, OH...................................... 923
Defense, Department of, Defense Supply Service, Washington, DC..................................................... 921
Defense, Department of, Maryland Procurement Office, Fort George G. Meade, MD............................ 822
Defense, Department of, National Security Agency, Fort George G. Meade, MD..................................... 923
Degrees and Certificates................................................................. 667,992
Degree Programs, New................................................................. 988,986
Delco Moraine, Dayton, OH......................................................... 830
Deloit Touche and Company....................................................... 674
Department, Establishment of New........................................... 987
Department, Renaming of........................................................... 898
Development Fund Board of Directors........................................ 1139
Devereux Foundation (The), Devon, PA................................. 685
Diabetes Research and Education Foundation, Inc., Bridgewater, NJ 1022
Dibert, Steve (Student)................................................................. 917
Digital Equipment Corporation, Maynard, MA........................ 700
Distinguished Service Awards.................................................... 802-805
Division, Renaming of................................................................. 898
Dow Chemical, Midland, MI....................................................... 703
Dreese Laboratory Addition......................................................... 1196,1231
Drinko, John Deaver, - Baker & Hostetler Chair in Law (The).... 839

E
Easements.................................................................................. 717,718
Easter Seal Research Foundation, Chicago, IL............................... 1191
Eastmoor Electric, Columbus, OH............................................. 842,874
Edicon, Rochester, NY................................................................. 687
Edison Welding Institute, Columbus, OH...................................... 831-833,1193
Edmond’s Mechanical, Dayton, OH............................................ 936,974
Education, Department of, Washington, DC............................... 921,1015,1188
Education, Department of, Office of Educational Research and 820
Improvements, Washington, DC.................................................. 820
Education, Department of, Office of Postsecondary Education, 1183,1187
Washington, DC........................................................................
Education, Department of, Office of Special Education and 695,1011
Rehabilitation Services, Washington, DC....................................
Education, Department of, Office of Vocational and Adult 1183
Education, Washington, DC....................................................... 1183
Educational Affairs Committee.................................................... 1138
Egyptian Government, Washington, DC.................................... 928
Election of Officers, Board of Trustees........................................ 982
Electric Power Research Institute, Palo Alto, CA..................... 1192
Emergency Medicine, Department of........................................ 987
EMTEC, Kettering, OH................................................................. 687
Endowment Summary Report, The Ohio State University........ 662,731,798,
851,896,953, 984,1039,1142,1207
Energy, Department of, Argonne, IL.......................................... 679,820-
822,1013,1186
Engineering Experiment Station................................................. 831,929,1023,1193
Engineering Technologies, Division of (ATI)............................ 898
Environmental Protection Agency, Las Vegas, NV................... 1188
Environmental Protection Agency, Washington, DC................ 1013,1184,1186
EPRI, Palo Alto, CA................................................................. 830
Epsilon Sigma Phi Leadership Fund (The)................................ 931
Evans, Luke (Student)............................................................... 999,1178
Expressions of Appreciation..................................................... 844,916,1003,1177

F
Farber Corporation, Columbus, OH............................................ 713,753,843,878
Fats and Proteins Research Foundation, Fort Myers Beach, FL ........................................ 700
Firebaugh, Francille M. (Distinguished Service Award) ......................................................... 803
Firebaugh, Francille M., Study Abroad Scholarship Fund ..................................................... 706
Fiscal Affairs Committee Report ......................................................................................... 674,918, 1004,1139,1180
Folk, Robert L., Academic Excellence Scholarship Fund (The) ........................................ 836
Food Facility Freezer Addition - Stores and Receiving Building ......................................... 712,753
Food Safety Hotline - Report on ........................................................................................ 1004
Fort Defiance, Defiance, OH ............................................................................................ 842,876
Fort Dodge Laboratories, Fort Dodge, IA ......................................................................... 1019
Foster, Nadine, and Merrill Quentin Elder Scholarship Fund (The) ................................... 1194
Franklin County Mental Health Board, Columbus, OH ...................................................... 701
Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, OH ... 685
Freeman Construction, Wooster, OH .................................................................................. 1031,1065
Friends of the Homeless, Inc., Columbus, OH .................................................................. 701

G
Gas Research Institute, Chicago, IL .................................................................................... 684
GE Reco Trailer MD, Cincinnati, OH .................................................................................. 1192
General Electric, Cincinnati, OH ....................................................................................... 687,704,831, 832,1192,1193
General Electric, Schenectady, NY ................................................................................... 682,704
General Electric Aircraft Engines, Cincinnati, OH ............................................................ 703
General Motors Corporation, Indianapolis, IN ..................................................................... 827
Geo-Centers, Inc., Newton Upper Falls, MA ....................................................................... 1190
Geography Faculty and Alumni Fund (The) ..................................................................... 836
Georgia Department of Education, Atlanta, GA ................................................................. 1192
GeoVision Systems, Inc., Englewood, CO ......................................................................... 683
Getty Center for Education in the Arts (The), Los Angeles, CA ........................................ 702
Gleihl, R. M., Columbus, OH ............................................................................................ 1199,1233
Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia ... 827
Grayson Foundation, Inc., Lexington, KY ........................................................................... 928
Guenther Foundation, Inc., Englewood, CO ..................................................................... 1190
Guenther Foundation, Inc., Englewood, CO ..................................................................... 836
Georgia Department of Education, Atlanta, GA ................................................................. 1192
GeoVision Systems, Inc., Englewood, CO ......................................................................... 683
Getty Center for Education in the Arts (The), Los Angeles, CA ........................................ 702
Gleihl, R. M., Columbus, OH ............................................................................................ 1199,1233
Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia ... 827
Grayson Foundation, Inc., Lexington, KY ........................................................................... 928
Guenther Foundation, Inc., Englewood, CO ..................................................................... 1190
Guenther Foundation, Inc., Englewood, CO ..................................................................... 836
Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia ... 827
Grayson Foundation, Inc., Lexington, KY ........................................................................... 928

H
Haffey, Alpha and Paul E., Scholarship Endowment (The) ................................................... 707
Hale, Frank W., Jr., Endowed Scholarship (The) ................................................................. 692
Harre, Gwen Moody, Endowed Fund for Physical Therapy (The) ..................................... 692
Harris, Richard Lambert, Flute Scholarship Fund (The) ...................................................... 834
Haynes, Leonard L., III (Honorary Degree) ........................................................................ 806
Health and Human Services, Department of, Division of Research Resources, Bethesda, MD ... 696,820,1184
Health and Human Services, Department of, Health Resources and Services Administration, Rockville, MD ... 1184
Health and Human Services, Department of, National Cancer Institute, Bethesda, MD ........ 695-697,820,821, 1001,1017,1183,1184
Health and Human Services, Department of, National Center for Nursing Research, Bethesda, MD ... 924,1011,1017,1183
Health and Human Services, Department of, National Center for Research Resources, Bethesda, MD ... 1011,1184

x
Health and Human Services, Department of, National Centers for Disease Control, Atlanta, GA ........................................ 698
Health and Human Services, Department of, National Eye Institute, Bethesda, MD ........................................ 921, 1014
Health and Human Services, Department of, National Heart, Lung, and Blood Institute, Bethesda, MD ....................... 822, 921, 923, 1011, 1183, 1184, 1186
Health and Human Services, Department of, National Institute of Allergy and Infectious Diseases, Bethesda, MD ........ 678, 679, 695, 822, 824, 825, 1012, 1183, 1184
Health and Human Services, Department of, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, MD ........................................... 697, 1018, 1184
Health and Human Services, Department of, National Institute of Child Health and Human Development, Bethesda, MD ........................................ 696, 697, 825, 921
Health and Human Services, Department of, National Institute of Dental Research, Bethesda, MD ....................... 695, 697
Health and Human Services, Department of, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD ........................................... 679, 823, 825, 1011, 1012, 1013, 1183, 1184, 1189
Health and Human Services, Department of, National Institute of Environmental Health Services, Research Triangle Park, NC ........................................ 821, 823
Health and Human Services, Department of, National Institute of General Medical Sciences, Bethesda, MD ................ 695-697, 820-822, 825, 922, 1011-1013, 1183, 1184
Health and Human Services, National Institute of Mental Health, Rockville, MD ........................................ 678, 921, 922
Health and Human Services, Department of, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, MD ........................................ 821, 1012, 1013, 1186
Health and Human Services, Department of, National Institute on Aging, Bethesda, MD ........................................ 695, 921
Health and Human Services, Department of, National Institute on Deafness and Other Communication Disorders, Bethesda, MD ........................................ 695, 921, 1186, 1187
Hemophilia Foundation of Michigan, Ann Arbor, MI ........................................ 1021
Herr, Donald E. and Joan E., 4-H International Programs Fund (The) ........................................ 837
Hoffmann-LaRoche, Inc., Nutley, NJ ........................................ 682
Home Economics, Bachelor of Science in ........................................ 664
Honda of America Manufacturing, Inc., Marysville, OH ........................................ 1019
Honorary Degrees ........................................ 666, 806-808, 991
Horticultural Research Institute, Inc., Washington, DC ........................................ 926
Hospitals Board Committee Report ........................................ 659, 797, 894, 983, 1140
Howser, Sara P. Sprague, Endowed Scholarship (The) ........................................ 932
HPM Corporation, Marion, OH ........................................ 925
Human Ecology, Bachelor of Science in ........................................ 664
Huron County Mental Health Board, Norwalk, OH ........................................ 829
IBM, Endicott, NY ........................................ 830
IBM Technical Interchange Program, Owego, NY ........................................ 831, 1192
Igel, George, Co., Columbus, OH................................................................. 714,757
Immeke, Leonard J. (University Hospitals Board) ....................................... 590
Indiana University, Bloomington, IN......................................................... 829
Institute of Gas Technology, Chicago, IL.................................................... 827
Institute of International Education, New York, NY................................. 685
Institute of Noetic Sciences, Sausalito, CA............................................... 928
Inter-University Council......................................................................... 1139
International Development Cooperation Agency, Agency for
International Development, Washington, DC............................................ 676,680,1011
Investments Committee Report ................................................................ 662,731,798,851, 861,896,953,984,
1039,1051,1138,1142,1207
Investments Policy .................................................................................... 1143-1153
Iowa, University of (The), Iowa City, IA.................................................... 684
Iowa State University, Ames, IA ................................................................. 829,927,928
Irons, Frank, Agricultural Engineering Scholarship Fund (The) ................. 1193

J

James, Arthur G., Cancer Hospital and Research Institute (The) .................. 640-646,651
James, Arthur G., Cancer Hospital and Research Institute
Trustee Liaison (The) ............................................................................... 1139
Japan-United States Friendship Commission, Washington, DC ................. 927
Jarrow Formulas, Inc., Los Angeles, CA .................................................... 1020
Joy Electric, Lima, OH............................................................................ 842,876

K

Karrer, Mary, Memorial Fund (The) ............................................................ 837
Kellogg, W. K., Foundation, Battle Creek, MI........................................... 1191
Kemper Research Foundation (The), Milford, OH .................................... 927
Kenny Road, 1960 - Renovation ................................................................. 840,869,1199,1233
Klatskin, Neil M., Memorial Scholarship Fund in Real Estate (The) ............ 930
Koffolt Laboratory, Masonry Improvements ............................................. 1031,1065
Kubiac, Willis T., Memorial Fund (The)...................................................... 1027
Kyle, Thomas B., Scholarship Fund in Horticulture (The) .......................... 691

L

L. S. B. Leakey Foundation, Pasadena, CA.................................................. 928
La Londe, Bernard J., Transportation and Logistics
Scholarship (The) ..................................................................................... 1026
Lawrence County Joint Vocational School, Chesapeake, OH................... 829
Lilly, Eli, and Company, Indianapolis, IN.................................................. 1020,1190
Lima Technical College - Entrance Road ................................................. 842,876
Lipscomb, William N., Jr. (Honorary Degree) .......................................... 898
Lobe, Dr. Samuel and Rosa, Scholarship Fund........................................... 707
Lockheed Engineering and Science Company, Houston, TX.................. 1190

M

Magnetic Resonance Imaging/Magnetic Resonance Spectroscopy ............... 843,878
Magnetic Resonance Imaging/Spectroscopy Facility .................................. 711,749
Maine, University of, at Orono, Orono, ME............................................. 685
March of Dimes Birth Defects Foundation, White Plains, NY.................. 701,1021
Marion Laboratories, Inc., Kansas City, MO............................................ 699
Martin Construction, Columbus, OH....................................................... 842,874
Martin Marietta, Denver, CO ........................................................... 687
Martin Marietta Corporation, Oak Ridge, TN ........................................ 699,827
Marysville Veterinary Clinic, Marysville, OH ........................................... 1035,1077
Masonry Improvements (Bricker Hall) ......................................................... 1030,1065
Masonry Improvements (Koffolt Laboratory) ............................................... 1031,1065
Master of Arts Degree Program in Women's Studies .............................. 985
Master Plan Update and Noise Compatibility Study for The Ohio State University Airport, Adoption of .................................................. 720-727
McDonnell Douglas Corp., St. Louis, MO .................................................. 703,831,1192
McMurray, Charles R. (Distinguished Service Award) ............................. 803
Medhurst, Richard R., & Genevieve H. Medhurst Scholarship in Social Welfare ................................................................. 709
Medhurst, Richard R., Scholarship in Social Welfare (The) .................... 709
Medical College of Ohio, Toledo, OH ...................................................... 685,702
Medical Staff Rules and Regulations of The Ohio State University Hospitals, Amendments to the ................................................................. 1154
Mellon, Andrew W., Foundation (The), New York, NY ............................ 684
Men's Glee Club, European Tour of the .................................................... 656
Merck and Company, Rahway, NJ ........................................................... 827
Meyer, Norwood H. and Helen M., Scholarship Fund in Pharmacy (The) 834
Michigan State University, East Lansing, MI ............................................ 1021
Midwest Plant Biotechnology Consortium, West Lafayette, IN ............ 1191
Miles Construction, Columbus, OH .......................................................... 1031,1065
Miles Pharmaceutical, Berkeley, CA ....................................................... 683
Miles Pharmaceutical, Elkhart, IN ............................................................ 683
Miller Pavement Maintenance, Hilliard, OH .............................................. 1198,1233
Minnesota, University of, St. Paul, MN .................................................... 684
Minority Affairs, Office of - Report on the .............................................. 790-797,847
Minority Student Undergraduate Enrollment .......................................... 790,847
Mission Research Corporation, Santa Barbara, CA ............................... 1019
Mobil Research and Development Corp., Princeton, NJ ....................... 687
Molecular Biosystems, Inc., San Diego, CA ............................................ 1020
Montgomery, Edward, Jr., Scholarship Fund ............................................ 710
Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I ................................................................. 841,874
Morris Animal Foundation, Englewood, CO ........................................... 685
Muscular Dystrophy Association, New York, NY ...................................... 827,828,927

N

Nalin, Dr. David L., Blue Bell, PA ............................................................ 702
Naming of Building .................................................................................. 1157
National 4-H Council, Chevy Chase, MD .................................................. 1020
National Aeronautics and Space Administration, Washington, DC .......... 678
National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA ......................................................... 1187,1189
National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD .......................................................... 922,923,1187,1188
National Aeronautics and Space Administration, Johnson Space Center, Houston, TX ................................................................. 1188
National Aeronautics and Space Administration, Langley Research Center, Hampton, VA .............................................................. 680,923,1188
National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH ............................................................... 823,922,1013,1016, 803,695,822, 1185,1187,1188
National Foundation for Infectious Diseases, Bethesda, MD .................. 929
National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, DC ................................................................. 824
National Occupational Information Coordinating Committee, Washington, DC ................................................................. 824
National Research Council, Washington, DC ................................................................................................................................. 924
National Science Foundation, Washington, DC .................................................................................................................. 678-680,697,698,821-825,921-924,1011-1018,1183-1189

National Security Council, Central Intelligence Agency, Washington, DC ................................................................................................. 1188
National Training Fund for the Sheet Metal and Air-Conditioning Industry, Alexandria, VA ................................................................. 701,702
National Training Fund for the Sheet Metal and Air-Conditioning Industry, Washington, DC ........................................................................... 1020
Navistar International Transportation Corporation, Columbus, OH .................................................................................................. 925
Navy, Department of the, Office of Naval Research, Arlington, VA ................................................................................................. 678,679,695,697,821,822,824,1015,1017,1185,1187,1188
Nebraska, University of, Lincoln, NE .............................................................................................................................................. 684
NeoRx Corporation, Seattle, WA ...................................................................................................................................................... 682
Netter, Frank H., (Honorary Degree) ............................................................................................................................................. 807
Nicholson, Gary J., Memorial Scholarship in Horticulture (The) ........................................................................................................ 706
Nominating Committee ........................................................................................................................................................................ 886
Nordmann Roofing, Toledo, OH .................................................................................................................................................... 1032,1065
North Atlantic Treaty Organization, Brussels, Belgium ................................................................................................................. 702
North Carolina State University, Raleigh, NC .................................................................................................................................... 701
North Star Avenue, 2760, Columbus, OH ............................................................................................................................................ 717,763
Nu Sigma Nu Alumni Scholarship Fund ........................................................................................................................................ 1027
NutraSweet Company (The), Mt. Prospect, IL ....................................................................................................................................... 925

OARDC Entomology Greenhouse ......................................................................................................................................................... 1030,1065
Ohio - State of, Board of Regents, Columbus, OH ......................................................................................................................... 681,826
Ohio - State of, Commission on Minority Health, Columbus, OH .................................................................................................. 1018
Ohio - State of, Department of Administrative Services, Columbus, OH ................................................................................................. 1018
Ohio - State of, Department of Aging, Columbus, OH ................................................................................................................................ 826
Ohio - State of, Department of Commerce, Columbus, OH .................................................................................................................................. 924
Ohio - State of, Department of Development, Columbus, OH ........................................................................................................... 681,698,699,924,1018
Ohio - State of, Department of Education, Columbus, OH .................................................................................................................. 681,826,925,1018
Ohio - State of, Department of Health, Columbus, OH .................................................................................................................. 826,1018,1189
Ohio - State of, Department of Human Services, Columbus, OH .................................................................................................... 699,1018,1019
Ohio - State of, Department of Mental Health, Columbus, OH ........................................................................................................ 681,826,1018
Ohio - State of, Department of Natural Resources, Columbus, OH ..................................................................................................... 924,1189,1190
Ohio - State of, Department of Transportation, Columbus, OH ......................................................................................................... 686,703,826,830,1018
Ohio - State of, Environmental Protection Agency, Columbus, OH .................................................................................................. 681,699
Ohio - State of, Ohio Arts Council, Columbus, OH .................................................................................................................................. 699
Ohio - State of, Ohio Humanities Council, Columbus, OH .................................................................................................................. 682
Ohio - State of, Public Utilities Commission, Columbus, OH ............................................................................................................. 924
Ohio Bell Telephone Company (The) .............................................................................................................................................. 718,767
Ohio Floriculture Foundation, Columbus, OH .................................................................................................................................. 684
Ohio River Basin Consortium, Columbus, OH .................................................................................................................................... 686
Ohio Special Olympics, Inc., Columbus, OH ....................................................................................................................................... 685
Ohio Stadium Turf Replacement ........................................................................................................................................................... 713,757
Ohio State Anesthesia Research Foundation, Columbus, OH........................................... 684
Ohio State University Affiliates, Inc................................................................................ 1139
Ohio State University Airport (The).................................................................................. 718,765
Ohio State University Campaign (The) - Report.............................................................. 798,861,984,1051
Ohio State University Hospitals Board Committee Report (The).................................... 659,797,894,983,1140
Ohio State University Research Foundation Committee Report (The).......................... 658,894,982,1140
Ohio University, Athens, OH.............................................................................................. 703
OMAC, Inc., Albany, GA.................................................................................................... 830
Oral Biology, Ph.D. Degree Program in.............................................................................. 986
Organon, Inc., West Orange, NJ......................................................................................... 925
Orton, Edward, Jr., Chair in Ceramic Engineering (The).................................................... 833
Orton Hall Fund (The)......................................................................................................... 835
Owens-Illinois, Inc., Columbus, OH.................................................................................... 699
Oxley Hall Rehabilitation...................................................................................................... 840,869

Page Hall - Window Replacements.................................................................................... 1197,1233
Paralyzed Veterans of America, Washington, DC............................................................ 927
Pardee, Elsa U., Foundation, Midland, MI......................................................................... 700
Parker, J. T., "Stubby", Chair in Dairy Foods Fund (The)...................................................... 688
Paynter, John W., Honors Scholarship Fund in the College of Business (The).................. 693
Pennsylvania State University (The), Hershey, PA............................................................ 829
Peplau, Hildegard E. (Honorary Degree).......................................................................... 991
Perkin Elmer Corporation, Danbury, CT................................................................................ 700
Personal Safety - Report on.............................................................................................. 813
Personnel Committee........................................................................................................ 1139
Petroleum Research Fund (The), Washington, DC............................................................ 828,830
Pfizer, Inc., Groton, CT...................................................................................................... 699,1019,1190
Ph.D. Degree Program in Oral Biology (Dentistry)............................................................ 986
Phillips, H. K., Columbus, OH.......................................................................................... 1030,1065
Pitman-Moore, Inc., Mundelein, IL.................................................................................. 926
Pitman-Moore, Inc., Terre Haute, IN................................................................................ 683
Pixar, San Rafael, CA........................................................................................................ 1190
Plant Biology, Department of........................................................................................... 898
Postle Hall Renovations..................................................................................................... 1198,1233
PPG Industries, Inc., Pittsburgh, PA.................................................................................. 830
Premier Peat Moss, Ltd., Quebec, Canada......................................................................... 682
President, Establishment of Search Committee for................................................................ 646-650
President, Statement of Criteria for Selection of the......................................................... 728
Presidential Search Committee Update.............................................................................. 682-685,1252-1255
Pressey Hall - Office of Career Development................................................................... 935,974
Prime Computer Inc., Bedford, MA.................................................................................. 683
Progress Mechanical, Newark, OH.................................................................................... 842,874
Project Leisure Education - Participation Report............................................................... 915
Property, Gift of Real.......................................................................................................... 715,761
Property, Sale of Real.......................................................................................................... 1033,1035,1075,1077
Psychiatric Hospital Building Fund (The).......................................................................... 838
Purdue University, West Lafayette, IN............................................................................... 828

Ramada Hotel - Status Report on the............................................................................... 674
Rape Education and Prevention Program - Report on....................................................... 1175
Refrigeration Systems, Columbus, OH.............................................................................. 713,763
Regional Campus Improvements (Newark)...................................................................... 1198,1233
Renaming of Degree ............................................................................................................. 664
Renaming of Department ...................................................................................................... 898, 1153
Renaming of Division .......................................................................................................... 896
Research Biochemicals Incorporated, Natick, MA .............................................................. 682
Research Corporation, Tucson, AZ ...................................................................................... 828
Research Foundation Board of Directors .......................................................................... 1139
Research Foundation Report ............................................................................................. 894, 982, 1140
Residence Life Programs - Report on ................................................................................ 997
Retirement Credit, Purchase of .......................................................................................... 908, 1250
Rieser, M., & Assoc., Columbus, OH .................................................................................. 1197, 1233
Riffe, Vernal G., Jr., Building .............................................................................................. 1157
Rightmire Hall Renovation - Phase II, Demolition ............................................................. 711, 749, 936, 974
Ro-Dan Mechanical, Columbus, OH .................................................................................. 935, 974
Robinson, Cecil and Eloise, Agricultural Engineering Endowment Fund (The) ................. 705
Robinson Laboratory Renovation ......................................................................................... 936, 974
Rochester, University of (The), Rochester, NY .................................................................. 926
Rockefeller Foundation, New York, NY .............................................................................. 1021, 1191
Roerig/Pfizer, New York, NY .............................................................................................. 683
Romanoff Electric, Dublin, OH ........................................................................................... 843, 878, 1198, 1233
Rosenblum, Morris S. (University Hospitals Board - Emeritus) ......................................... 990
Ross, Ed, Westerville, OH ..................................................................................................... 1199, 1233
Ross Laboratories, Columbus, OH ...................................................................................... 683, 827, 925
Royston, Hanamoto, Alley & Abey, Mill Valley, CA ............................................................ 703
Rubenmaid Incorporated Scholarship Endowment Fund .................................................. 694
Ruben, Bernard R., Columbus, OH ..................................................................................... 715, 761
Ruffed Grouse Society (The), Coraopolis, PA ..................................................................... 1022
Rules of the University Faculty, Amendments to the ......................................................... 665, 988

16th Avenue, 195 and 201 East, Columbus, OH ................................................................. 1033, 1075
Sandor, Inc., East Hanover, NJ ........................................................................................... 926
Satellite Video Conferencing - Report on .......................................................................... 662
Saunders, William H., Otolaryngology Endowment Fund (The) ......................................... 1009, 1025
Sawyer, John W. and Dorothy Uhl, Award (The) ................................................................. 1026
Schoenbaum, Alex (Distinguished Service Award) .............................................................. 803
Schoenbaum, Betty (Distinguished Service Award) .............................................................. 803
School of Natural Resources - Report on the ...................................................................... 814, 865
Seagrat School Project - South Bass & Gibraltar Islands ..................................................... 1032, 1065
Search Committee for Position of President - Establishment of ........................................ 646, 650
Selective Admission Policy - Extension of the .................................................................. 663
Showa Denko K-K, New York, NY ...................................................................................... 1020
Shurtz, Robert Ferguson, Awards Fund (The) .................................................................... 1194
Sigma Kappa Sorority Foundation, North Little Rock, AR .................................................. 702
Skilken, Helen, Joseph, Lynne, and Steve, Athletic Scholarship ........................................ 702
Sloan, Steve (Student) .......................................................................................................... 1175
Smith Richardson Foundation, Inc., New York, NY .......................................................... 828, 926
Smithsonian Institute, Washington, DC ............................................................................. 820
Smithsonian Institute, Smithsonian Tropical Research Institute, APO, Miami, FL .......... 1188
Smokeless Tobacco Research Council, Inc., New York, NY ................................................. 1020, 1191
Smucker, J. M., Company (The), Orrville, OH ................................................................... 682
Sofia, M. S., Scholarship and Lecture Memorial Fund in Arabic (The) ................................ 1195

"Someone Cares" Mansfield Campus Scholarship Fund for Women ................................. 690
Southeastern Center for Electrical Engineering Education, 
St. Cloud, FL ................................................................. 702
Southern California, University of, Los Angeles, CA ....................................................... 1021
Southern Regional Education Board, Atlanta, GA ........................................................... 684
Southwest Research Institute, San Antonio, TX ................................................................. 827
Squibb, E. R., and Sons, Princeton, NJ ........................................................................... 682,925
Stark County Alumni Scholars Program (The) ................................................................ 934
Straub, David (Student) .................................................................................................... 1001
Stuart Pharmaceuticals, Wilmington, DE ........................................................................ 683
Student Affairs Committee Report .............................................................................. 673,813,915, 
997,1139,1175
Student Trustee .............................................................................................................. 1138
Sullivant, Joseph, Medal Award........................................................................................ 904
Superconductive Components, Inc., Columbus, OH ...................................................... 700

T

Tennessee Valley Authority, Knoxville, TN ................................................................. 923
Texas, University of, Galveston, TX ........................................................................... 1021
Texas, University of, Houston, TX ............................................................................. 1192
Texas, University of (The), Richardson, TX ................................................................ 701
Texas A & M University, College Station, TX ................................................................. 928
Tomczak, Michael J., Athletic Endowment Fund (The) .............................................. 1025
Touche Ross and Co. ....................................................................................................... 719
Transportation, Department of, National Highway Traffic Safety Administration, East Liberty, OH ................................................................. 821,923,1016,1017
Turf Services, Tuscaloosa, AL ...................................................................................... 714,757
TYDAC Technologies Corporation, Ottawa, Ontario, Canada ...................................... 683

U

United Nations, Geneva, Switzerland ............................................................................. 1191
United Nations, Rome, Italy ............................................................................................ 700
United States Golf Association, Far Hills, NJ ................................................................ 1022
Universal Energy Systems, Inc., Dayton, OH ................................................................. 925,1020
Universities Space Research Association, Houston, TX .................................................. 928
University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, OH ................................................................. 927
University Airport Renovation - 1990 ......................................................................... 899,867
University Foundation Board of Directors .................................................................. 1139
University Hospitals Board .............................................................................................. 1139
University Hospitals Board Appointment ..................................................................... 990
University Hospitals Board Bylaws, Amendments to .................................................. 899
University Hospitals Emergency Department Master Plan - Phase I, Holding Area and Hyperbaric Oxygen Therapy ................................................................. 1029,1063
University's Endowment Portfolio - Report ................................................................ 662,731,798,851, 
869,953,984,1039, 
1142,1207
UNOCAL Corp., Brea, CA .............................................................................................. 688
Upper Arlington City Schools, Upper Arlington, OH ................................................... 685

V

Vanguard-Sentinel Joint Vocational School Board of Education, 
Fremont, OH ...................................................................................................................... 686
Vermont, University of (The), Burlington, VT ............................................................... 927,1022
Virginia Department of Education, Richmond, VA ...................................................... 927
Waiver of Paragraph (G) of Bylaw 3335-1-08 ................................................................. 1156
Waivers of Competitive Bidding Requirements - Report on .................................................. 816,1007
Wall & Lund, Columbus, OH .................................................................................. 936,974
Wallis-Carroll, Dublin, OH .................................................................................. 1199,1233
Warner, Paul C. and Edna H., Fund for Sustainable Agriculture
(The) .................................................................................................................. 690
Warner-Lambert Company, Morris Plains, NJ ................................................................. 700
Wayne State University, Detroit, MI ............................................................................... 686
West Campus Bridges ............................................................................................. 714,759
Westinghouse Electric Corporation, Pittsburgh, PA ......................................................... 826
Westland Mechanical, Reynoldsburg, OH ...................................................................... 713,753
Wetlands Research, Inc., Chicago, IL ........................................................................... 700
Wexner Center Foundation ............................................................................................ 1205
Wexner Center's Academic Program ............................................................................... 1153
Whitmer, Samuel T. .................................................................................................... 656
Williamson Builders, Plain City, OH ......................................................................... 843,878,935,974
Wissler, Robert W. (Honorary Degree) .......................................................................... 666
Women's Studies, Master of Arts Degree Program in ..................................................... 985

Y

Yassenoff, Leo, Foundation (The), Columbus, OH ......................................................... 1022

Z

Zahnisser, Adrienne A. and Marvin R., Scholarship Fund .................................................. 708
Zeigler, Cody, Summit Station, OH ................................................................................ 937,974
Zimmerman, Woodford, Memorial Scholarship Fund (The) ......................................... 933
Zoecon Corporation, Dallas, TX ................................................................................... 682
Zuckerman, Ben A., Memorial Scholarship Fund (The) .................................................. 838